

Table 2.

S81497	7849	AAB360 43	7850	U08464	7851	P38571	7852	72	Lysosomal acid lipase	AA874784	S81497 lysosomal acid lipase=intracellular hydrolase [rats, Wolman, liver, mRNA, 3144 nt]
S81497	7853	AAB360 43	7854	U08464	7855	P38571	7856	72	Lysosomal acid lipase=intracel lular hydrolase		S81497 lysosomal acid lipase=intracellular hydrolase [rats, Wolman, liver, mRNA, 3144 nt]
S81497	7857	AAB360 43	7858	U08464	7859	P38571	7860	72	Lysosomal acid lipase	AA874784	S81497 lysosomal acid lipase=intracellular hydrolase [rats, Wolman, liver, mRNA, 3144 nt]
S82911	7861	AAB468 39	7862	NM_0227 16	7863	P54821	7864	95	rHox= protein		S82911 rHox=Hox protein [rats, ROS 17/2.8 osteosarcoma cell line, mRNA, 1375 nt]
S83194	7865	AAB469 10	7866	NM_0322 94	7867	NP_115 670	7868	88	Ca2+/calmodu lin-dependent protein kinase IV kinase isoform		S83194 Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3429 nt]
S83194	7869	AAB469 10	7870	NM_0322 94	7871	NP_115 670	7872	88	Ca2+/calmodu lin-dependent protein kinase IV kinase isoform		S83194 Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3429 nt]
S83279	7873	AAB485 19	7874	NM_0004 14	7875	P51659	7876	83	HSD IV=peroxisom e proliferator- inducible gene		S83279 HSD IV=peroxisome proliferator- inducible gene [rats, F344, liver, mRNA Partial, 2480 nt]
S83279	7877	AAB485 19	7878	NM_0004 14	7879	P51659	7880	83	HSD IV=peroxisom e proliferator- inducible gene		S83279 HSD IV=peroxisome proliferator- inducible gene [rats, F344, liver, mRNA Partial, 2480 nt]

Table 2.

S83320	7881	AAB507 33	7882	NM_0219 52	7883	P26378	7884	91	HuD=neurosp ecific RNA binding protein	S83320 r-HuD=HuD [rats, hypothalamus, mRNA, 1444 nt]
S83320	7885	AAB507 33	7886	NM_0219 52	7887	P26378	7888	91	HuD=neurosp ecific RNA binding protein	S83320 r-HuD=HuD [rats, hypothalamus, mRNA, 1444 nt]
S83320	7889	AAB507 33	7890	NM_0219 52	7891	P26378	7892	91	HuD=neurosp ecific RNA binding protein	S83320 r-HuD=HuD [rats, hypothalamus, mRNA, 1444 nt]
S83320	7893	AAB507 33	7894	NM_0219 52	7895	P26378	7896	91	HuD=neurosp ecific RNA binding protein	S83320 r-HuD=HuD [rats, hypothalamus, mRNA, 1444 nt]
S83320	7897	AAB507 33	7898	NM_0219 52	7899	P26378	7900	91	HuD=neurosp ecific RNA binding protein	S83320 r-HuD=HuD [rats, hypothalamus, mRNA, 1444 nt]
S83320	7901	AAB507 33	7902	NM_0219 52	7903	P26378	7904	91	HuD=neurosp ecific RNA binding protein	S83320 r-HuD=HuD [rats, hypothalamus, mRNA, 1444 nt]
S83358	7905	AAB722 03	7906	L13616	7907	Q05397	7908	92	focal adhesion kinase (FAK)	S83358 focal adhesion kinase/pp125FAK/FAK + (alternatively spliced) [rats, striatum, mRNA, 4575 nt]
S85184	7809	AAB215 16	7910	NM_0019 12	7911	P07711	7912	75	Cyclic Protein- 2 (CP-2) mRNA, partial cds	S85184 Cyclic Protein-2=cathepsin L proenzyme [rats, Sertoli cells, mRNA, 1790 nt]
S85184	7913	AAB215 16	7914	NM_0019 12	7915	P07711	7916	75	Cyclic Protein- 2 (CP-2) mRNA, partial cds	S85184 Cyclic Protein-2=cathepsin L proenzyme [rats, Sertoli cells, mRNA, 1790 nt]
S90449	7917	AAB218 88	7918	XM_03087 8		XP_030 878			Protein phosphatase 2C isoform, PP2C2	S90449 protein phosphatase 2C isoform [rats, liver, mRNA, 1950 nt]
U01227	7919	AA521 82	7920	NM_0008 69	7921	P46098	7922	83	5HT3 receptor	U01227 RSU01227 Rattus sp. 5HT3 receptor subunit mRNA, partial cds

Table 2.

U01227	7923	AA4521 82	7924	NM_0008 69	7925	P46098	7926	83	5HT3 receptor	U01227 RSU01227 Rattus sp. 5HT3 receptor subunit mRNA, partial cds		
U01344	7927	P50287	7928	U80835	7929	g224537 6	7930	76	Rattus norvegicus clone A-2 arylamine N- acetyltransferase mRNA, complete cds	U01344 Rattus norvegicus clone A-2 arylamine N-acetyltransferase mRNA, complete cds /cds=(975,1847) /gb=U01344 /gi=786257 /ug=Rn.11112 /len=2533	Cytoplasmic.	Arylamine N- acetyltransferase 1 (EC 2.3.1.5) (Arylamide acetylase 1)(N- acetyltransferase type 1) (NAT- 1) (AT-1).
U02315	7931	P43322	7932	U02327	7933	Q12784	7934	96.92	Clone ndf04 neu differentiation factor mRNA, partial cds	U02315 Rattus norvegicus clone ndf04 neu differentiation factor mRNA, partial cds /cds=(0,694) /gb=U02315 /gi=408360 /ug=Rn.10311 /len=1043	EXISTS AS A TYPE I MEMBRANE PROTEIN AND AS A PROTEOLYTICALLY RELEASED SOLUBLE GROWTH FACTOR FORM. THE MEMBRANE- BOUND FORM DOES NOT SEEM TO BE ACTIVE.	Pro-neuregulin- 1 precursor (Pro- NRG1) [Contains: Neuregulin-1 (Neudifferentiat ion factor) (Heregulin) (HRG) (Acetylcholine receptor-inducin g activity) (ARIA) (Sensory and motor neuron-derived factor)(G

Table 2.

U02315	7935	P43322	7936	U02327	7937	Q12784	7938	96.92	Clone ndf04 neu differentiation factor mRNA, partial cds	U02315 Rattus norvegicus clone ndf04 neu differentiation factor mRNA, partial cds /cds=(Q.894) /gb=U02315 /g=408380 /ug=Rn.10311 /len=1043	EXISTS AS A TYPE I MEMBRANE PROTEIN AND AS A PROTEOLYTICALLY RELEASED SOLUBLE GROWTH FACTOR FORM. THE MEMBRANE- BOUND FORM DOES NOT SEEM TO BE ACTIVE.	Pro-neuregulin- 1 precursor (Pro- NRG1) [Contains: Neuregulin-1 (Neudifferentiat on factor) (Heregulin) (HRG) (Acetylcholine receptorinducin g activity) (ARIA) (Sensory and motor neuron-derived factor)(G
U02320	7939	AAA189 45	7940	NM_0139 57	7841	Q12784	7942	90	Rattus norvegicus clone ndf40 neu differentiation factor	U02320 RNU02320 Rattus norvegicus clone ndf40 neu differentiation factor mRNA, partial cds		
U02320	7943	AAA189 45	7944	NM_0139 57	7845	Q12784	7946	90	Rattus norvegicus clone ndf40 neu differentiation factor	U02320 RNU02320 Rattus norvegicus clone ndf40 neu differentiation factor mRNA, partial cds		



Table 2.

U02322	7947	P43322	7948	U02327	7949	Q12784	7950	96.92	Potassium channel, subfamily K, member 3 // Neu differentiation factor	U02322 Rattus norvegicus clone ndf42a neu differentiation factor mRNA, complete cds /cds=(344,2332) /gb=U02322 /gi=408394 /ug=Rn.10311 /len=2402	EXISTS AS A TYPE I MEMBRANE PROTEIN AND AS A PROTEOLYTICALLY RELEASED SOLUBLE GROWTH FACTOR FORM. THE MEMBRANE-BOUND FORM DOES NOT SEEM TO BE ACTIVE.	Pro-neuregulin-1 precursor (Pro-NGF) [Contains: Neuregulin-1 (Neurodifferentiation factor) (Heregulin) (HRG) (Acetylcholine receptor/inducing activity) (ARIA) (Sensory and motor neuron-derived factor)(G
U02506	7951	No Rat Protein Found.	7953	No human homolog found.	No Human Protein Found.	Rattus norvegicus clone 7 polymeric immunoglobulin receptor mRNA, 3' untranslated region microsatellite repeats	U02506UTR#1 RNU02506 Rattus norvegicus clone 7 polymeric immunoglobulin receptor mRNA, 3 untranslated region microsatellite repeats	U02506UTR#1 RNU02506 Rattus norvegicus clone 7 polymeric immunoglobulin receptor mRNA, 3 untranslated region microsatellite repeats	U02506UTR#1 RNU02506 Rattus norvegicus clone 7 polymeric immunoglobulin receptor mRNA, 3 untranslated region microsatellite repeats	U02506UTR#1 RNU02506 Rattus norvegicus clone 7 polymeric immunoglobulin receptor mRNA, 3 untranslated region microsatellite repeats	U02506UTR#1 RNU02506 Rattus norvegicus clone 7 polymeric immunoglobulin receptor mRNA, 3 untranslated region microsatellite repeats	
U02522	7952	Q62599	7953	NM_004689	7954	Q13330	7955	94.14	Mta1 (metastasis associated protein)	U02522 Rattus norvegicus Mta1 (mta1) mRNA, complete cds /cds=(96,2207) /gb=U02522 /gi=595252 /ug=Rn.5840 /len=2741	Metastasis-associated protein MTA1.	

Table 2.

U03414	7956	Q82609	7957	D82343	7958	Q99784	7959	94.72	Rattus norvegicus neuronal olfactomedin-related ER localized protein (D2Sut1e) mRNA, complete cds /gb=U03414 /gi=442363 /lug=Rn.11005 /len=938	Endoplasmic reticulum lumen.	Noelin precursor (Neuronal olfactomedin-related ER localized protein)(Olfactomedin 1) (Pancortin) (1B426B).
U04317	7960	AAA184 80	7961	AB012701	7962	Q01638	7963	85.71	U04317 Rattus norvegicus Fil-1M (Fil-1) mRNA, complete cds /cds=(274,1974) /gb=U04317 /gi=488275 /lug=Rn.10072 /len=2065		
U04998	7964	Q82656	7965	M83426	7966	P23471	7967	90.23	U04998 Rattus norvegicus Sprague-Dawley phosphacan mRNA, complete cds /cds=(105,4955) /gb=U04998 /gi=461371 /lug=Rn.10088 /len=6801	Type I membrane protein.	Protein-tyrosine phosphatase zeta precursor (EC 3.1.3.48) (RPTP-zeta) (Phosphacan) (3F8 chondroitin sulfate proteoglycan) (3H1 keratansulfate proteoglycan).

Table 2.

U04998	7968	Q62656	7969	M93426	7970	P23471	7971	90.23	Protein tyrosine phosphatase, receptor-type, zeta polypeptide		U04998 Rattus norvegicus Sprague-Dawley phosphacan mRNA, complete cds /cds=(105,4955) /gb=U04998 /gi=461371 /ug=Rn.10088 /len=6801	Type I membrane protein.	Protein-tyrosine phosphatase zeta precursor (EC 3.1.3.48) (RPTP-zeta) (Phosphacan) (3F8 chondroitin sulfate proteoglycan) (3H1 keratansulfate proteoglycan).
U05013	7972	P23711	7973	D21243	7974	P30519	7975	89	Heme oxygenase-2 non-reducing isoform		U05013 Rattus norvegicus Sprague-Dawley heme oxygenase-2 non-reducing isoform gene, complete cds /cds=(177,1124) /gb=U05013 /gi=501034 /ug=Rn.10241 /len=1815		
U05013	7976	P23711	7977	D21243	7978	P30519	7979	89	Heme oxygenase-2 non-reducing isoform		U05013 Rattus norvegicus Sprague-Dawley heme oxygenase-2 non-reducing isoform gene, complete cds /cds=(177,1124) /gb=U05013 /gi=501034 /ug=Rn.10241 /len=1815		
U05014	7980	AAA869 <sub>38</sub>	7981	NM_0040 <sub>95</sub>	7982	NP_004086	7983	92	Rattus norvegicus Sprague/Dawley PHAS-I mRNA, complete cds	AI178828	U05014 RNU05014 Rattus norvegicus Sprague/Dawley PHAS-I mRNA, complete cds		
U05014	7984	AAA869 <sub>38</sub>	7985	NM_0040 <sub>95</sub>	7986	NP_004086	7987	92	Rattus norvegicus Sprague/Dawley PHAS-I mRNA, complete cds	AI178828	U05014 RNU05014 Rattus norvegicus Sprague/Dawley PHAS-I mRNA, complete cds		

Table 2.

U05784	7988	Q62625	7989	H28835	7990	NP_073729	7991	89.62	light chain 3 subunit of microtubule-associated proteins 1A and 1B.	U05784 Rattus norvegicus microtubule-associated proteins 1A and 1B light chain 3 subunit mRNA, complete cds /cde=(26,454) /gb=U05784 /gi=455108 /ug=Rn.883 /len=881	Microtubule-associated proteins 1A/1B light chain 3 (MAP1A/MAP1B LC3).
U06230	7992	I59618	7996	M15036	7993	P07225	7994	88.41	Protein S	U06230 Rattus norvegicus protein S mRNA, partial cds /cds=(0,1040) /gb=U06230 /gi=497116 /ug=Rn.4845 /len=1589	
U06713	7995	A53770	7996	AK025273	7997	T42700	7998	91.6	Factor-responsive smooth muscle protein	U06713 Rattus norvegicus Sprague-Dawley SM-20 mRNA, complete cds /cds=(190,1257) /gb=U06713 /gi=469477 /ug=Rn.10994 /len=2825	
U06713	7999	A53770	8000	AK025273	8001	T42700	8002	91.6	Factor-responsive smooth muscle protein	U06713 Rattus norvegicus Sprague-Dawley SM-20 mRNA, complete cds /cds=(190,1257) /gb=U06713 /gi=469477 /ug=Rn.10994 /len=2825	
U06752	8003	AAA85523	8004	AJ242542	8005	CAB85606	8006	80.1	Fisher 344 pre-sialomucin complex (pSMC) mRNA, repeat sequences 10-14, partial cds	U06762 RNMUCASGP7 Rattus norvegicus Fisher 344 pre-sialomucin complex (pSMC) mRNA, repeat sequences 10-14, partial cds	
U07181	8007	P42123	8008	BF913405	8009	NP_002291	8010	87.5	Lactate dehydrogenase e-B (LDH-B)	U07181 Rattus norvegicus lactate dehydrogenase-B (LDH-B) mRNA, complete cds /cds=(25,1029) /gb=U07181 /gi=473576 /ug=Rn.1785 /len=1217	Cytoplasmic. L-lactate dehydrogenase B chain (EC 1.1.1.27) (LDH-B) (LDH heartsubunit) (LDH-H).

Table 2.

U07181	8011	P42123	8012	BF913405	8013	NP_002291	8014	87.5	Lactate dehydrogenase-B (LDH-B)	U07181 Rattus norvegicus lactate dehydrogenase-B (LDH-B) mRNA, complete cds /cds=(25,1029) /gb=U07181 /gi=473576 /ug=Rn.1785 /len=1217	Cytoplasmic.	L-lactate dehydrogenase B chain (EC 1.1.1.27) (LDH-B) (LDH heartsubunit) (LDH-H).
U08214	8015	AAA91950	8016	XM_050405		XP_050405		91	DNA binding protein (URE-B1)	U08214 RSU08214 Rattus sp. DNA binding protein (URE-B1) mRNA, complete cds		
U08257	8017	Q01812	8018	S67803	8019	Q16099	8020	92.07	Glutamate receptor KA1 subunit	U08257 Rattus norvegicus Sprague-Dawley glutamate receptor KA1 subunit mRNA, complete cds /cds=(76,2946) /gb=U08257 /gi=475545 /ug=Rn.10049 /len=3312	Integral membrane protein.	"Glutamate receptor, ionotropic kainate 4 precursor (Glutamate receptor(KA-1) (KA1))."
U08280	8021	Q62648	8022	AB002392	8023	Q16517	8024	92.52	neuronatin alpha.	U08280 Rattus norvegicus neuronatin alpha mRNA, complete cds /cds=(40,285) /gb=U08280 /gi=518541 /ug=Rn.5785 /len=1178		Neuronatin.
U08976	8025	Q62651	8026	U16660	8027	Q13011	8028	85.42	Peroxisomal enoyl hydratase-like protein	U08976 Rattus norvegicus Wistar peroxisomal enoyl hydratase-like protein (PXEL) mRNA, complete cds /cds=(10,993) /gb=U08976 /gi=478983 /ug=Rn.6148 /len=1097	MITOCHONDRIAL AND PEROXISOMAL	"Delta3,5-delta2,4-dienoyl-CoA isomerase, mitochondrial precursor(EC 5.3.3.-)."
U09211	8029	AAA20498	8030	U09210	8031	NP_003046	8032	85.9	Vesicular acetylcholine transporter mRNA	U09211 Rattus norvegicus vesicular acetylcholine transporter mRNA, complete cds /cds=(858,2450) /gb=U09211 /gi=507745 /ug=Rn.9987 /len=2858		

Table 2.

U09228	8033	Q82655	8034	AK026674	8035	AAA603 10	8036	92.83	E-box binding factor mRNA	U09228 Rattus norvegicus New England Deaconess E-box binding factor mRNA, partial cds /cde=(0,1286) /gb=U09228 /gi=517189 /ug=Rn.10450 /len=1481	Nuclear.	Transcription factor 4 (Immunoglobulin transcription factor 2) (ITF- 2)(RITF-2) (SL3- 3 enhancer factor 2) (SEF- 2) (Fragment).
U09357	8037	Q82656	8038	M93426	8039	P23471	8040	90.23	receptor-type protein tyrosine phosphatase zeta/beta.	U09357 Rattus norvegicus receptor-type protein tyrosine phosphatase zeta/beta mRNA, complete cds /cde=(105,7055) /gb=U09357 /gi=487780 /ug=Rn.10088 /len=7851	Type I membrane protein.	Protein-tyrosine phosphatase zeta precursor (EC 3.1.3.48) (R- PTP-zeta) (Phosphacan) (3F8 chondroitin sulfate proteoglycan) (3H1 keratansulfate proteoglycan).
U09540	8041	Q84678	8042	U03688	8043	Q16678	8044	84.64	Cytochrome P450 1b1	U09540 RNU09540 Rattus norvegicus Sprague-Dawley cytochrome P450 (CYP1B1) mRNA, complete cds	Membrane- bound. Endoplasmic reticulum.	Cytochrome P450 1B1 (EC 1.14.14.1) (CYP1B1) (P450RAP).
U09540	8045	Q84678	8046	U03688	8047	Q16678	8048	84.64	Cytochrome P450	U09540 RNU09540 Rattus norvegicus Sprague-Dawley cytochrome P450 (CYP1B1) mRNA, complete cds	Membrane- bound. Endoplasmic reticulum.	Cytochrome P450 1B1 (EC 1.14.14.1) (CYP1B1) (P450RAP).
U09540	8049	Q84678	8050	U03688	8051	Q16678	8052	84.64	Cytochrome P450 1b1	U09540 RNU09540 Rattus norvegicus Sprague-Dawley cytochrome P450 (CYP1B1) mRNA, complete cds	Membrane- bound. Endoplasmic reticulum.	Cytochrome P450 1B1 (EC 1.14.14.1) (CYP1B1) (P450RAP).

Table 2.

U09540	8053	Q64878	8054	U03888	8055	Q16678	8056	84.84	Cytochrome P450
U09551	8057	AAA532 40	8058	BC022329	8059	XP_027 193	8060	92.07	HMG-box containing protein 1
U09551	8061	AAA532 40	8062	BC022329	8063	XP_027 193	8064	92.07	HMG-box containing protein 1
U09793	8065	P46203	8066	NM_0049 85	8067	P01118	8068	84	p21
U10354	8069	P48442	8070	U20760	8071	P41180	8072	89.83	Calcium- sensing receptor (hypocalcemic hypercalcemia 1, severe neonatal hyperparathyroidism)
U10354	8073	P48442	8074	U20760	8075	P41180	8076	89.83	Calcium- sensing receptor (hypocalcemic hypercalcemia 1, severe neonatal hyperparathyroidism)
U09540	U09540 RNU09540 Rattus norvegicus Sprague-Dawley cytochrome P450 (CYP1B1) mRNA, complete cds							Membrane-bound. Endoplasmic reticulum.	Cytochrome P450 1B1 (EC 1.14.14.1) (CYP1B1) (P450RAP).
U09551	U09551 Rattus norvegicus HMG-box containing protein 1 (HBP1) mRNA, complete cds /cds=(41,1582) /gb=U09551 /gi=576448 /ug=Rn.11101 /len=2842								
U09551	U09551 Rattus norvegicus HMG-box containing protein 1 (HBP1) mRNA, complete cds /cds=(41,1582) /gb=U09551 /gi=576448 /ug=Rn.11101 /len=2842								
U09793	U09793 Rattus norvegicus p21 (c-KI-ras) mRNA, complete cds /cds=(0,566) /gb=U09793 /gi=495533 /ug=Rn.10007 /len=661								Transforming protein p21b (K-Ras 2B) (K-Ras) (c-K-ras).
U10354	U10354 Rattus norvegicus kidney extracellular calcium-sensing receptor mRNA, complete cds /cds=(573,3812) /gb=U10354 /gi=607815 /ug=Rn.10019 /len=4113							Integral membrane protein.	Extracellular calcium-sensing receptor precursor (CaSR) (ParathyroidCell calcium-sensing receptor).
U10354	U10354 Rattus norvegicus kidney extracellular calcium-sensing receptor mRNA, complete cds /cds=(573,3812) /gb=U10354 /gi=607815 /ug=Rn.10019 /len=4113							Integral membrane protein.	Extracellular calcium-sensing receptor precursor (CaSR) (ParathyroidCell calcium-sensing receptor).

Table 2.

U10357	8077	Q64536	8078	NM_002611	8079	Q15119	8080	91.98	pyruvate dehydrogenase kinase 2 subunit p45 (PDK2)	U10357 Rattus norvegicus pyruvate dehydrogenase kinase 2 subunit p45 (PDK2) mRNA, complete cds /cds=(98,1321) /gb=U10357 /gi=684002 /ug=Rn.11363 /len=2207	Mitochondrial matrix.	"[Pyruvate dehydrogenase kinase isozyme 2, mitochondrial precursor (EC 2.7.1.99) (Pyruvate dehydrogenase kinase isoform 2)(PDK P45)."
U10357	8081	Q64536	8082	NM_002611	8083	Q15119	8084	91.98	pyruvate dehydrogenase kinase 2 subunit p45 (PDK2)	U10357 Rattus norvegicus pyruvate dehydrogenase kinase 2 subunit p45 (PDK2) mRNA, complete cds /cds=(98,1321) /gb=U10357 /gi=684002 /ug=Rn.11363 /len=2207	Mitochondrial matrix.	"[Pyruvate dehydrogenase kinase isozyme 2, mitochondrial precursor (EC 2.7.1.99) (Pyruvate dehydrogenase kinase isoform 2)(PDK P45)."
U10895	8085	AAA83437	8086	BG701915	8087	NP_005645	8088	99.37	orphan receptor COUP-TFI	U10895 Rattus norvegicus Wistar orphan receptor COUP-TFI mRNA, complete cds /cds=(474,1733) /gb=U10895 /gi=508761 /ug=Rn.11251 /len=2514		
U10895	8089	AAA83437	8090	BG701915	8091	NP_005645	8092	99.37	orphan receptor COUP-TFI	U10895 Rattus norvegicus Wistar orphan receptor COUP-TFI mRNA, complete cds /cds=(474,1733) /gb=U10895 /gi=508761 /ug=Rn.11251 /len=2514		
U11071	8093	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			Polyadenylation-binding protein related protein mRNA, 3' end	U11071 RNPABPR2 Rattus norvegicus Sprague-Dawley polyadenylation-binding protein-related protein mRNA, 3' end		



Table 2.

U11419	8094	Q00960	8095	U11287	8096	Q13224	8097	91.16	glutamate receptor	U11419 Rattus norvegicus glutamate receptor subunit mRNA, complete cds /cds=(350,4798) /gb=U11419 /gi=558081 /ug=Rn.9711 /len=5259	Integral membrane protein.	Glutamate (NMDA) receptor subunit epsilon 2 precursor (N-methyl-D-aspartate receptor subtype 2B) (NR2B) (NMDAR2B).
U11681	8098	P42346	8099	AK024393	8100	CAB44736	8101	94.17	Rapamycin and FKBP12 target-1 protein (RAFT1)	U11681 Rattus norvegicus rapamycin and FKBP12 target-1 protein (RAFT1) mRNA, complete cds /cds=(63,7712) /gb=U11681 /gi=511228 /ug=Rn.11008 /len=8554		FKBP-rapamycin associated protein (FRAP) (Rapamycin target protein).
U11685	8102	Q62685	8103	BC008819	8104	Q13133	8105	92.24	Nuclear receptor subfamily 1, group H, member 3	U11685 Rattus norvegicus orphan receptor RLD-1 (rd-1) mRNA, complete cds /cds=(24,1361) /gb=U11685 /gi=555751 /ug=Rn.11209 /len=1723	Nuclear.	Oxysterols receptor LXR-alpha (Liver X receptor alpha) (Nuclear orphan receptor LXR-alpha) (RLD-1).
U12568	8106	P37986	8107	BC009841	8108	P38405	8109	95.54	ADP-ribosylation factor-like protein 3	U12568 Rattus norvegicus ADP-ribosylation factor-like protein 3 (rad3) mRNA, complete cds /cds=(12,560) /gb=U12568 /gi=560005 /ug=Rn.9538 /len=783		ADP-ribosylation factor-like protein 3 (ARD3).

Table 2.

U13176	8110	P51669	8111	AF317220	8112	P51669	8113	97.42	ubc2e ubiquitin conjugating enzyme (E217kB)	U13176 Rattus norvegicus clone ubc2e ubiquitin conjugating enzyme (E217kB) mRNA, complete cds /cds=(74,517) /gb=U13176 /gi=595667 /ug=Rn.7390 /len=815	Ubiquitin- conjugating enzyme E2-17 kDa 2 (EC 6.3.2.19) (Ubiquitin- protein ligase) (Ubiquitin carrier protein) (E2(17)KB 2).
U13177	8114	P47986	8115	U39318	8116	P47988	8117	97.74	Ubiquitin- conjugating enzyme E2D 3 (homologous to yeast UBC4/5)	U13177 Rattus norvegicus clone ubc4a ubiquitin conjugating enzyme (E217kB) mRNA, complete cds /cds=(203,646) /gb=U13177 /gi=595669 /ug=Rn.6130 /len=901	Ubiquitin- conjugating enzyme E2-17 kDa 3 (EC 6.3.2.19) (Ubiquitin- protein ligase) (Ubiquitin carrier protein) (E2(17)KB 3).
U13895	8118	AAC53 589	8119	NIM_0028 03	8120	P35998	8121	91	MSS1 protein	U13895 RNU13895 Rattus norvegicus MSS1 protein (MSS1) mRNA, partial cds	
U14005	8122	AAB605 15	8123	M78558	8124	Q01698	8125	85	Calcium channel alpha- 1 subunit gene	U14005exon#1 RNU14005 Rattus norvegicus calcium channel alpha-1 subunit gene, partial cds	
U14005	8126	AAB605 15	8127	M76558	8128	Q01668	8129	85	Calcium channel alpha- 1 subunit gene	U14005exon#1 RNU14005 Rattus norvegicus calcium channel alpha-1 subunit gene, partial cds	
U14398	8130	P50232	8131	X96783	8132	Q00445	8133	42	Synaptotagmin n 4	U14398 Rattus norvegicus synaptotagmin IV homolog mRNA, complete cds /cds=(287,1544) /gb=U14398 /gi=550453 /ug=Rn.11072 /len=2080	Synaptotagmin IV (SytIV).

Integral  
membrane  
protein.  
Synaptic  
vesicles.

Table 2.

U14398	8134	P50232	8135	X96783	8136	000445	8137	42	Synaptotagmin n 4	U14398 Rattus norvegicus synaptotagmin IV homolog mRNA, complete cds /cds=(267,1544) /gb=U14398 /gl=550453 /ug=Rn.11072 /len=2060	Integral membrane protein. Synaptic vesicles.	Synaptotagmin IV (SydV).
U14398	8138	P50232	8139	X96783	8140	000445	8141	42	Synaptotagmin n 4	U14398 Rattus norvegicus synaptotagmin IV homolog mRNA, complete cds /cds=(267,1544) /gb=U14398 /gl=550453 /ug=Rn.11072 /len=2060	Integral membrane protein. Synaptic vesicles.	Synaptotagmin IV (SydV).
U14398	8142	P50232	8143	X96783	8144	000445	8145	42	Synaptotagmin n 4	U14398 Rattus norvegicus synaptotagmin IV homolog mRNA, complete cds /cds=(267,1544) /gb=U14398 /gl=550453 /ug=Rn.11072 /len=2060	Integral membrane protein. Synaptic vesicles.	Synaptotagmin IV (SydV).
U14748	8146	AAA868 74	8147	L15409	8148	P40337	8149	88.69	VHL protein	U14748 Rattus norvegicus VHL protein (VHL) mRNA, complete cds /cds=(119,676) /gb=U14748 /gl=882107 /ug=Rn.11059 /len=2807	Integral membrane protein. Synaptic vesicles.	
U15550	8150	AAA507 61	8151	X56160	8152	P24821	8153	70	Tenascin-C	U15550 RNU15550 Rattus norvegicus tenascin-C mRNA, partial cds		
U15734	8154	Q62703	8155	X78669	8156	Q14257	8157	87.78	Talporin- associated calcium binding protein 49	U15734 Rattus norvegicus talporin- associated calcium binding protein-49 precursor mRNA, complete cds /cds=(229,1185) /gb=U15734 /gl=606967 /ug=Rn.6133 /len=2019	Endoplasmic reticulum lumen.	Reticulocalbin 2 precursor (Calcium- binding protein ERC-55) (Talporin- associated calcium-binding protein-49) (TCBP-49).
U16245	8158	P47864	8159	NM_0016 51	8160	NP_001 642	8161	77	Aquaporin-5	U16245 Rattus norvegicus aquaporin-5 (AQP5) mRNA, complete cds /cds=(109,906) /gb=U16245 /gl=664759 /ug=Rn.10066 /len=1428	Integral membrane protein.	Aquaporin 5.
U16655	8162	AAC52 346	8163	AK023083	8164	NP_116 115	8165	85.45	Phospholipase C delta-4 mRNA	U16655 Rattus norvegicus phospholipase C delta-4 mRNA, complete cds /cds=(142,2460) /gb=U16655 /gl=571465 /ug=Rn.11358 /len=2695		

Table 2.

U16886	8168	Q62716	8167	NM_0210 10	8168	NP_066 280	8169	43	defensin RatNP-1 precursor	U16886 Rattus norvegicus defensin RatNP-1 precursor mRNA, complete cds /cds=(76,360) /gb=U16886 /gi=1041810 /ug=Rn.10223 /len=485	Secreted.	Neutrophil antibiotic peptide NP-1 precursor (Neutrophil defensin 1)(RatNP-1).
U17013	8170	AA531 85	8171	NM_0026 97	8172	P14859	8173	56	transcription factor Oct1 (Oct1)	U17013 Rattus norvegicus transcription factor Oct1 (Oct1) mRNA, partial cds /cds=(0,1898) /gb=U17013 /gi=575454 /ug=Rn.9982 /len=2157		
U17253	8174	Q62722	8175	AF045452	8176	Q13508	8177	88.85	Transcriptional repressor NAB1	U17253 Rattus norvegicus transcriptional repressor NAB1 mRNA, complete cds /cds=(351,2063) /gb=U17253 /gi=915281 /ug=Rn.10099 /len=2415	Nuclear.	NGF1A binding protein 1 (EGR- 1 binding protein 1).
U17254	8178	P22829	8179	D49728	8180	P22736	8181	91	Immediate early gene transcription factor NGFI-B	U17254 Rattus norvegicus Immediate early gene transcription factor NGFI-B mRNA, complete cds /cds=(212,1903) /gb=U17254 /gi=596053 /ug=Rn.10000 /len=2488	Nuclear.	Orphan nuclear receptor HMR (Nerve growth factor induced protein I- B)(NGFI-B) (NUR77).
U17254	8182	P22829	8183	D49728	8184	P22736	8185	91	Immediate early gene transcription factor NGFI-B	U17254 Rattus norvegicus Immediate early gene transcription factor NGFI-B mRNA, complete cds /cds=(212,1903) /gb=U17254 /gi=596053 /ug=Rn.10000 /len=2488	Nuclear.	Orphan nuclear receptor HMR (Nerve growth factor induced protein I- B)(NGFI-B) (NUR77).
U17565	8186	Q62724	8187	D84557	8188	Q14566	8189	86.92	Rattus norvegicus intestinal DNA replication protein mRNA, partial cds	U17565 Rattus norvegicus intestinal DNA replication protein mRNA, partial cds /cds=(0,1523) /gb=U17565 /gi=3169698 /ug=Rn.10220 /len=1812	Nuclear.	DNA replication licensing factor MCM5 (intestinal DNA replicationprotei n) (Fragment).

Table 2.

U17607	8190	Q82725	8191	AK055329	8192	BAA128 18	8193	95.41	Rattus norvegicus CCAAT binding transcription factor CBF subunit C	U17607 Rattus norvegicus CCAAT binding transcription factor CBF subunit C mRNA, complete cds /cds=(84,1091)/gb=U17607 /gi=1208479 /ug=Rn.10212 /len=1203	Nuclear.	Nuclear transcription factor Y subunit gamma (NF-Y protein chain C)(Nuclear factor YC) (NF- YC) (CCAAT- binding transcription factorsubunit C) (CBF-C).
U17697	8194	Q84654	8195	BG567904	8196	Q16850	8197	93.38	Cytochrome P450 Lanosterol 14 alpha- demethylase	U17697 RNU17697 Rattus norvegicus lanosterol 14-alpha-demethylase mRNA, complete cds	Microsomal.	Cytochrome P450 51 (EC 1.14.14.-) (CYPL1) (P450L1) (Sterol 14- alpha-demethyla se) (Lanosterol 14-alpha demethylase) (LDM) (P450- 14DM).
U17834	8198	P47853	8199	BC001754	8200	Q16828	8201	100	biglycan	U17834 Rattus norvegicus biglycan mRNA, complete cds /cds=(122,1231)/gb=U17834 /gi=600487 /ug=Rn.783 /len=2432	Extracellular matrix.	Biglycan precursor (Bone/cartilage proteoglycan I) (PG-S1).

Table 2.

U17919	8202	P55009	8203	U95213	8204	P55008	8205	91.67	allograft inflammatory factor-1.	U17919 Rattus norvegicus allograft inflammatory factor-1 mRNA, complete cds /cds=(70,513) /gb=U17919 /gi=872908 /ug=Rn.10561 /len=627	Allograft inflammatory factor-1 (AIF-1) (ionized calcium- binding adapter molecule 1) (Microglia response factor) (MRF-1).
U18771	8208	P51156	8207	BC007681	8208	Q9JULW 5	8209	87.43	Rattus norvegicus Rab26 mRNA, complete cds	U18771 Rattus norvegicus Rab26 mRNA, complete cds /cds=(29,601) /gb=U18771 /gi=619733 /ug=Rn.10875 /len=1098	Ras-related protein Rab-26.
U18614	8210	A56391	8211	AK021613	8212	CAB432 82	8213	88.62	Rattus norvegicus lamina- associated polypeptide 1C (LAP1C) mRNA, complete cds	U18614 Rattus norvegicus lamina-associated polypeptide 1C (LAP1C) mRNA, complete cds /cds=(58,1578) /gb=U18614 /gi=769854 /ug=Rn.11373 /len=2310	
U18614	8214	A56391	8215	AK021613	8216	CAB432 82	8217	88.62	Rattus norvegicus lamina- associated polypeptide 1C (LAP1C) mRNA, complete cds	U18614 Rattus norvegicus lamina-associated polypeptide 1C (LAP1C) mRNA, complete cds /cds=(58,1578) /gb=U18614 /gi=769854 /ug=Rn.11373 /len=2310	

Table 2.

U19614	8218	A56391	8219	AK021613	8220	CAB432 82	8221	88.62	Rattus norvegicus lamina- associated polypeptide 1C (LAP1C) mRNA, complete cds	U19614 Rattus norvegicus lamina-associated polypeptide 1C (LAP1C) mRNA, complete cds /cds=(58,1578) /gb=U19614 /gl=769854 /ug=Rn.11373 /len=2310
U19614	8222	A56391	8223	AK021613	8224	CAB432 82	8225	88.62	Rattus norvegicus lamina- associated polypeptide 1C (LAP1C) mRNA, complete cds	U19614 Rattus norvegicus lamina-associated polypeptide 1C (LAP1C) mRNA, complete cds /cds=(58,1578) /gb=U19614 /gl=769854 /ug=Rn.11373 /len=2310
U19866	8228	AAA686 85	8227	D87468	8228	NP_056 008	8229	89.09	Growth factor (Arc) mRNA	U19866 Rattus norvegicus growth factor (Arc) mRNA, complete cds /cds=(216,1406) /gb=U19866 /gl=644828 /ug=Rn.10086 /len=3032
U19893	8230	Q8QXQ 0	8231	XM_02844 3		XP_029 443		98	Alpha actinin 4	U19893 Rattus norvegicus alpha actinin mRNA, complete cds /cds=(166,2844) /gb=U19893 /gl=1142639 /ug=Rn.10730 /len=2996
U19893	8232	Q8QXQ 0	8233	XM_02844 3		XP_029 443		98	Alpha actinin 4	U19893 Rattus norvegicus alpha actinin mRNA, complete cds /cds=(166,2844) /gb=U19893 /gl=1142639 /ug=Rn.10730 /len=2996
U20195	8234	AAA828 91	8235	XM_00144 2		XP_001 442		91	phosphoglucose mutase (Pgm1)	U20195 RNU20195 Rattus norvegicus phosphoglucose mutase (Pgm1) mRNA, partial cds

Cytoplasmic.  
Alpha-actinin 4  
(Non-muscle  
alpha-actinin 4)  
(F-actin cross  
linking protein).

Cytoplasmic.  
Alpha-actinin 4  
(Non-muscle  
alpha-actinin 4)  
(F-actin cross  
linking protein).

Table 2.

U20796	8236	Q63504	8237	L31785	8238	Q14985	8239	87.1	nuclear receptor Rev- ErbA-beta	U20796 Rattus norvegicus nuclear receptor Rev-ErbA-beta mRNA, partial cds /cds=(0,1601) /gb=U20796 /gi=687734 /lug=Rn.10055 /len=3628	Nuclear .	Orphan nuclear receptor NR1D2 (Rev-erb-beta) (EAR4).
U21101	8240	Q01062	8241	U67733	8242	O00408	8243	90.79	cyclic GMP stimulated phosphodiesterase (PDE2A2)	U21101 Rattus norvegicus cyclic GMP stimulated phosphodiesterase (PDE2A2) mRNA, complete cds /cds=(37,2823) /gb=U21101 /gi=706929 /lug=Rn.10044 /len=3980	Membrane- bound .	*cGMP- dependent 3',5'- cyclic phosphodiesterase (EC 3.1.4.17) (CyclicGMP stimulated phosphodiesterase) (CGS- PDE) (cGSPDE).*
U21719	8244	NP_062426	8245	NM_004728	8246	Q8NR30	8247	78	DEAD/IGH (Asp-Glu-Ala-Asp/His) box polypeptide 21	U21719mRNA RNU21719 Rattus norvegicus clone D920 Intestinal epithelium proliferating cell-associated mRNA sequence		
U21721	8248	No Rat Protein Found.		XM_040050	8249	XP_040050	8250		Rattus norvegicus clone C101 Intestinal epithelium proliferating cell-associated mRNA sequence	U21721mRNA RNU21721 Rattus norvegicus clone C101 Intestinal epithelium proliferating cell-associated mRNA sequence		





Table 2.

U25281	8270	AAA877 91	8271	AA972141	8272	AAD154 18	90.77	Rattus norvegicus SH3 domain binding protein (CR16) mRNA, complete cds	U25281 Rattus norvegicus SH3 domain binding protein (CR16) mRNA, complete cds /cds=(191,1546) /gb=U25281 /gi=1185396 /lug=Rn.11272 /len=4359
U25746	8273	A57514	8274	AF106680	8275	BAA345 21	91.92	Rattus norvegicus RNA helicase with arginine- serine-rich domain mRNA, complete cds	U25746 Rattus norvegicus RNA helicase with arginine-serine-rich domain mRNA, complete cds /cds=(152,3250) /gb=U25746 /gi=897914 /lug=Rn.3436 /len=3531
U25746	8277	A57514	8278	AF106680	8279	BAA345 21	91.92	Rattus norvegicus RNA helicase with arginine- serine-rich domain mRNA, complete cds	U25746 Rattus norvegicus RNA helicase with arginine-serine-rich domain mRNA, complete cds /cds=(152,3250) /gb=U25746 /gi=897914 /lug=Rn.3436 /len=3531
U25746	8281	A57514	8282	AF106680	8283	BAA345 21	91.92	Rattus norvegicus RNA helicase with arginine- serine-rich domain mRNA, complete cds	U25746 Rattus norvegicus RNA helicase with arginine-serine-rich domain mRNA, complete cds /cds=(152,3250) /gb=U25746 /gi=897914 /lug=Rn.3436 /len=3531

Table 2.

U25746	8285	A57514	8286	AF106680	8287	BAA345 21	8288	91.92	Rattus norvegicus RNA helicase with arginine- serine-rich domain mRNA, complete cds	U25746 Rattus norvegicus RNA helicase with arginine-serine-rich domain mRNA, complete cds /cds=(152,3250) /gb=U25746 /gi=897814 /ug=Rn.3436 /len=3531
U25746	8289	A57514	8290	AF106680	8291	BAA345 21	8292	91.92	Rattus norvegicus RNA helicase with arginine- serine-rich domain mRNA, complete cds	U25746 Rattus norvegicus RNA helicase with arginine-serine-rich domain mRNA, complete cds /cds=(152,3250) /gb=U25746 /gi=897814 /ug=Rn.3436 /len=3531
U25746	8293	A57514	8294	AF106680	8295	BAA345 21	8296	91.92	Rattus norvegicus RNA helicase with arginine- serine-rich domain mRNA, complete cds	U25746 Rattus norvegicus RNA helicase with arginine-serine-rich domain mRNA, complete cds /cds=(152,3250) /gb=U25746 /gi=897814 /ug=Rn.3436 /len=3531
U26310	8297	AAA676 48	8298	NM_0226 48	8299	NP_072 174	8300	97	Tensin (Tns)	U26310 RNU26310 Rattus norvegicus tensin (Tns) mRNA, partial cds
U26356	8301	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			S100A1 gene	U26356 mRNA RNSHUNA1 Rattus norvegicus S100A1 gene, exon 1
U27186	8302	AAB605 12	8303	NM_0034 45	8304	Q12901	8305	90.76	Cys2/His2 zinc finger protein (rKr2)	U27186 Rattus norvegicus Cys2/His2 zinc finger protein (rKr2) mRNA, complete cds /cds=(320,2564) /gb=U27186 /gi=868159 /ug=Rn.10168 /len=2817

Table 2.

U27201	8308	P48032	8307	NIM_0003 62	8308	P36625	8309	95	tissue inhibitor of metalloproteinase 3 (TIMP-3)	U27201 Rattus norvegicus tissue inhibitor of metalloproteinase 3 (TIMP-3) mRNA, complete cds /cds=(3,638) /gb=U27201 /gi=971205 /ug=Rn.6050 /len=704	Secreted. Extracellular matrix	Metalloproteinase inhibitor 3 precursor (TIMP-3) (Tissue inhibitor of metalloproteinases-3).
U27319	8310	AAC52 945	8311	NIM_0001 88	8312	P19367	8313	100	Hexokinase 1	U27319 Rattus norvegicus type I hexokinase (HK) gene, promoter region and partial cds		
U27767	8314	P49799	8315	U27768	8316	P49798	8317	90.41	Regulator of G protein signaling 4	U27767 Rattus norvegicus RGP4 mRNA, complete cds /cds=(63,680) /gb=U27767 /gi=1216370 /ug=Rn.11085 /len=1489		Regulator of G-protein signaling 4 (RGS4) (RGP4).
U27767	8318	P49799	8319	U27768	8320	P49798	8321	90.41	Regulator of G protein signaling 4	U27767 Rattus norvegicus RGP4 mRNA, complete cds /cds=(63,680) /gb=U27767 /gi=1216370 /ug=Rn.11085 /len=1489		Regulator of G-protein signaling 4 (RGS4) (RGP4).
U28938	8322	T14328	8323	AF187042	8324	S60613	8325	88.55	Receptor-type protein tyrosine phosphatase D30	U28938 Rattus norvegicus protein tyrosine phosphatase D30 mRNA, complete cds /cds=(62,3712) /gb=U28938 /gi=1144001 /ug=Rn.10163 /len=4871		
U30788	8326	No Rat Protein Found.		BC002613	8327	No Human Protein Found.		81.18	Rattus norvegicus Tclone4 mRNA	U30788 Rattus norvegicus Tclone4 mRNA /cds=UNKNOWN /gb=U30788 /gi=1216374 /ug=Rn.6477 /len=2026		
U30938	8328	P15146	8329	AK056148	8330	XP_030843		93.33	Rattus norvegicus microtubule-associated protein 2 (MAP2) mRNA, 3' UTR	U30938 Rattus norvegicus microtubule-associated protein 2 (MAP2) mRNA, 3' UTR /cds=UNKNOWN /gb=U30938 /gi=987494 /ug=Rn.11396 /len=3738		Microtubule-associated protein 2 (MAP2B) [Contains: MAP2C].

Table 2.

	8331	Q62809	8332	NIM_0054	8333	NP_005441	8334	76	Noggin		U31203 Rattus norvegicus noggin (NOGGIN) mRNA, partial cds /cds=(0,434) /gb=U31203 /lg=1117818 /ug=Rn.10154 /len=997	Secreted.	Noggin precursor (Fragment).
U31203	8331	Q62809	8332	NIM_0054	8333	NP_005441	8334	76	Noggin		U31203 Rattus norvegicus noggin (NOGGIN) mRNA, partial cds /cds=(0,434) /gb=U31203 /lg=1117818 /ug=Rn.10154 /len=997	Secreted.	Noggin precursor (Fragment).
U31668	8335	Q62814	8336	Z78409	8337	Q15329	8338	92.84	Rattus norvegicus transcription factor E2F-5 mRNA, partial cds		U31668 Rattus norvegicus transcription factor E2F-5 mRNA, partial cds /cds=(0,904) /gb=U31668 /lg=938730 /ug=Rn.10286 /len=1496	Nuclear.	Transcription factor E2F5 (E2F-5) (Fragment).
U31866	8339	g1854476		AK021725	8340	g339469		88.61	Rattus norvegicus Nclone10 mRNA		U31866 Rattus norvegicus Nclone10 mRNA /cds=UNKNOWN /gb=U31866 /lg=1216376 /ug=Rn.11164 /len=2657		
U31866	8341	g1854476		AK021725	8342	g339469		88.61	Rattus norvegicus Nclone10 mRNA		U31866 Rattus norvegicus Nclone10 mRNA /cds=UNKNOWN /gb=U31866 /lg=1216376 /ug=Rn.11164 /len=2657		
U32314	8343	P52873	8344	BC011617	8345	P11498	8346	90.29	Pyruvate carboxylase		U32314 Rattus norvegicus pyruvate carboxylase mRNA, complete cds /cds=(34,3570) /gb=U32314 /lg=929987 /ug=Rn.11094 /len=3945	Mitochondrial matrix.	"Pyruvate carboxylase, mitochondrial precursor (EC 6.4.1.1) (Pyruvate carboxylase) (PCB)." "
U32314	8347	P52873	8348	BC011617	8349	P11498	8350	90.29	Pyruvate carboxylase		U32314 Rattus norvegicus pyruvate carboxylase mRNA, complete cds /cds=(34,3570) /gb=U32314 /lg=929987 /ug=Rn.11094 /len=3945	Mitochondrial matrix.	"Pyruvate carboxylase, mitochondrial precursor (EC 6.4.1.1) (Pyruvate carboxylase) (PCB)." "
U32575	8351	AA085505	8352	AF055008	8353	AAC09358	8354	93	Sec6		U32575 RNU32575 Rattus norvegicus (rsec6) mRNA, complete cds		
U32575	8355	AA085505	8356	AF055006	8357	AAC09358	8358	93	Sec6		U32575 RNU32575 Rattus norvegicus (rsec6) mRNA, complete cds		
U32575	8359	AA085505	8360	AF055006	8361	AAC09358	8362	93	Sec6		U32575 RNU32575 Rattus norvegicus (rsec6) mRNA, complete cds		

Table 2.

U32575	8363	AAA855 05	8364	AF055006	8365	AAC093 58	8366	93	Sec6	U32575 RNU32575 Rattus norvegicus (sec6) mRNA, complete cds
U32577	8367	AAA834 42	8368	AK024911	8369	P52272	8370	97.4	Rattus norvegicus M4 protein homolog mRNA, partial cds	U32577 Rattus norvegicus M4 protein homolog mRNA, partial cds /cds=(210,644) /gb=U32577 /gi=1101765 /ug=Rn.10156 /len=758
U32681	8371	A57190	8372	AJ243212	8373	I38006	8374	86.17	Crp-ductin	U32681 Rattus norvegicus ebnerin mRNA, complete cds /cds=(93,3965) /gb=U32681 /gi=975346 /ug=Rn.10107 /len=4344
U32681	8375	A57190	8376	AJ243212	8377	I38006	8378	86.17	Crp-ductin	U32681 Rattus norvegicus ebnerin mRNA, complete cds /cds=(93,3965) /gb=U32681 /gi=975346 /ug=Rn.10107 /len=4344
U33553	8379	AAC98 537	8380	AF059274	8381	AAC696 12	8382	92.14	Neuroglycan C	U33553 Rattus norvegicus neuroglycan C precursor mRNA, complete cds /cds=(12,1646) /gb=U33553 /gi=1061328 /ug=Rn.10146 /len=2107
U33553	8383	NP_062 157	8384	AF059274	8385	NP_006 565	8386	92.14	Chondroitin sulfate proteoglycan 5 (neuroglycan C)	U33553 Rattus norvegicus neuroglycan C precursor mRNA, complete cds /cds=(12,1646) /gb=U33553 /gi=1061328 /ug=Rn.10146 /len=2107
U34843	8387	g12361 14	8388	U27112	8389	g355174 2	8390	88.12	Rattus norvegicus cell cycle progression related D123 mRNA, complete cds	U34843 Rattus norvegicus cell cycle progression related D123 mRNA, complete cds /cds=(53,1063) /gb=U34843 /gi=1236113 /ug=Rn.11086 /len=1683

Table 2.

U34843	8391	g12361 14	8392	U27112	8393	g355174 2	8394	88.12	Rattus norvegicus cell cycle progression related D123 mRNA, complete cds	U34843 Rattus norvegicus cell cycle progression related D123 mRNA, complete cds /cds=(53,1063) /gb=U34843 /gi=1236113 /ug=Rn.11086 /len=1683
U34832	8385	AAA781 37	8396	NM_0248 16	8397	NP_079 092	8398	76	Fos-related antigen	U34832 Rattus norvegicus Fos-related antigen mRNA, complete cds /cds=(60,1724) /gb=U34832 /gi=1016711 /ug=Rn.3228 /len=2202
U34832	8399	AAA781 37	8400	NM_0248 16	8401	NP_079 092	8402	76	Fos-related antigen	U34832 Rattus norvegicus Fos-related antigen mRNA, complete cds /cds=(60,1724) /gb=U34832 /gi=1016711 /ug=Rn.3228 /len=2202
U34832	8403	AAA781 37	8404	NM_0248 16	8405	NP_079 092	8406	76	Fos-related antigen	U34832 Rattus norvegicus Fos-related antigen mRNA, complete cds /cds=(60,1724) /gb=U34832 /gi=1016711 /ug=Rn.3228 /len=2202
U34832	8407	AAA781 37	8408	NM_0248 16	8409	NP_079 092	8410	76	Fos-related antigen	U34832 Rattus norvegicus Fos-related antigen mRNA, complete cds /cds=(60,1724) /gb=U34832 /gi=1016711 /ug=Rn.3228 /len=2202
U34832	8411	AAA781 37	8412	NM_0248 16	8413	NP_079 092	8414	76	Fos-related antigen	U34832 Rattus norvegicus Fos-related antigen mRNA, complete cds /cds=(60,1724) /gb=U34832 /gi=1016711 /ug=Rn.3228 /len=2202
U34832	8415	AAA781 37	8416	NM_0248 16	8417	NP_079 092	8418	76	Fos-related antigen	U34832 Rattus norvegicus Fos-related antigen mRNA, complete cds /cds=(60,1724) /gb=U34832 /gi=1016711 /ug=Rn.3228 /len=2202
U34863	8419	P53583	8420	Z23115	8421	Q07817	8422	88	Programmed cell death repressor BCL- X-Long mRNA	U34863 RNU34863 Rattus norvegicus programmed cell death repressor BCL-X-Long mRNA, complete cds
									MITOCHON DRIAL MEMBRANE S AND PERINUCLE AR ENVELOPE .	Apoptosis regulator Bcl-x.

Table 2.

U35099	8423	Q13329	8424	AK057826	8425	AAC502 29	8426	93.13	Rattus norvegicus complexin II mRNA, complete cds	U35099 Rattus norvegicus complexin II mRNA, complete cds /cds=(282,886) /gb=U35099 /gi=1040918 /ug=Rn.10134 /len=900	Complexin 2 (Synaphin 1) (921-L).
U35244	8427	AAC52 985	8428	NM_0229 16	8429	NP_075 067	8430	93	vacuolar protein sorting homolog r- vps33a	U35244 Rat vacuolar protein sorting homolog r-vps33a mRNA, complete cds /cds=(66,1859) /gb=U35244 /gi=1477467 /ug=Rn.1285 /len=3269	
U35244	8431	AAC52 985	8432	NM_0229 16	8433	NP_075 067	8434	93	vacuolar protein sorting homolog r- vps33a	U35244 Rat vacuolar protein sorting homolog r-vps33a mRNA, complete cds /cds=(66,1859) /gb=U35244 /gi=1477467 /ug=Rn.1285 /len=3269	
U35245	8435	AAC52 986	8436	AL357472	8437	AAG346 80	8438	90.72	Rat vacuolar protein sorting homolog r- vps33b mRNA	U35245 RNU35245 Rat vacuolar protein sorting homolog r-vps33b mRNA, complete cds	
U35245	8439	AAC52 986	8440	AL357472	8441	AAG346 80	8442	90.72	Vacuolar protein sorting homolog r- vps33b	U35245 RNU35245 Rat vacuolar protein sorting homolog r-vps33b mRNA, complete cds	
U35775	8443	Q62847	8444	D67031	8445	Q9UEY8	8446	92	Adducin 3, gamma	U35775 Rattus norvegicus gamma-adducin mRNA, complete cds /cds=(133,2148) /gb=U35775 /gi=1041239 /ug=Rn.9416 /len=2246	Gamma adducin (Adducin-like protein 70) (Protein kinase C binding protein 35H).



Table 2.

U35775	8447	Q62847	8448	D67031	8449	Q9UEY8	8450	92	Adducin 3, gamma	U35775 Rattus norvegicus gamma-adducin mRNA, complete cds /cds=(133,2148) /gb=U35775 /gi=1041239 /ug=Rn.8418 /len=2246	Gamma adducin (Adducin-like protein 70) (Protein kinase C binding protein 35H).
U35776	8451	AAC52337	8452	NM_018209	8453	NP_060678	8454	75	ADP-ribosylation factor-directed GTPase activating protein	U35776 Rattus norvegicus ADP-ribosylation factor-directed GTPase activating protein mRNA, complete cds /cds=(283,1530) /gb=U35776 /gi=1130493 /ug=Rn.11219 /len=1862	
U35890	8455	Q10473	8456	BG026335	8457	P08896	8458	93.4	polypeptide GalNAc transferase	U35890 Rattus norvegicus polypeptide GalNAc transferase T1 mRNA, complete cds /cds=(102,1781) /gb=U35890 /gi=1141781 /ug=Rn.10286 /len=1838	Type II membrane protein. Golgi.
U36444	8459	JC5110	8460	NM_006201	8461	Q00536	8462	92	PCTAIRE-1 protein Kinase mRNA (Alternatively spliced - 1a used for Human)	U36444cds#1 RRU36444 Rattus rattus PCTAIRE-1 protein kinase mRNA, alternatively spliced, complete cds	"Polypeptide N-acetylgalactosaminyltransferase (EC 2.4.1.41) (Protein-UDP acetylgalactosaminyltransferase) (UDP-GalNAc:polypeptide, N-acetylgalactosaminyltransferase) (GalNAc-T1)."

Table 2.

U36444	JC5110	8464	NM_006201	8465	Q00536	8466	92	PCTAIRE-1 protein kinase mRNA (Alternatively spliced - 1a used for Human)
U36444	8463	8464	NM_006201	8465	Q00536	8466	92	PCTAIRE-1 protein kinase mRNA (Alternatively spliced - 1a used for Human)
U36444	8467	8468	NM_006201	8469	Q00536	8470	92	PCTAIRE-1 protein kinase mRNA (Alternatively spliced - 1a used for Human)
U36482	8471	8472	X94910	8473	P30040	8474	87.55	endoplasmic reticulum protein ERp29
U36482	8475	8476	X94910	8477	P30040	8478	87.55	endoplasmic reticulum protein ERp29 precursor
U36482	8479	8480	X94910	8481	P30040	8482	87.55	endoplasmic reticulum protein ERp29
U36482	8483	8484	X94910	8485	P30040	8486	87.55	endoplasmic reticulum protein ERp29 precursor

Table 2.

U36580	8487	Q62849	8488	BC010696	8489	Q16549	8490	87.53	Rattus norvegicus serine proteinase rPC7 precursor (Pcsk7)	U36580 Rattus norvegicus serine proteinase rPC7 precursor (Pcsk7) mRNA, complete cds /cds=(252,2603) /gb=U36580 /gi=1244519 /ug=Rn.10653 /len=3485	TYPE I MEMBRANE PROTEIN. SEEMS TO BE LOCALIZED INTRACELLULARLY TO THE TRANS GOLGI NETWORK.	Protein convertase subtilisin/kexin type 7 precursor (EC 3.4.21.-) (Protein convertase PC7) (Subtilisin/kexin-like protease PC7) (Prohormone convertase PC7) (rPC7).
U36771	8491	P97664	8492	XM_034422	8493	XP_034422	8494	90	sn-glycerol 3-phosphate acyltransferase	U36771 RNU36771 Rattus norvegicus glycerol 3-phosphate acyltransferase mRNA, nuclear gene encoding mitochondrial protein, partial cds	Integral membrane protein. Mitochondrial outer membrane.	"Glycerol-3-phosphate acyltransferase, mitochondrial precursor (EC 2.3.1.15) (GPAT)."
U36772	8495	AAB39470	8496	XM_034422	8497	XP_034422	8498	90	sn-glycerol 3-phosphate acyltransferase	U36772 Rattus norvegicus glycerol-3-phosphate acyltransferase mRNA, nuclear gene encoding mitochondrial protein, partial cds /cds=(0,1411) /gb=U36772 /gi=1754786 /ug=Rn.10646 /len=1512		
U36895	8499	A57223	8500	AF255342	8501	AAG10898	8502	27	Rattus norvegicus putative pheromone receptor VN3 mRNA, complete cds	U36895 Rattus norvegicus putative pheromone receptor VN3 mRNA, complete cds /cds=(180,1115) /gb=U36895 /gi=1055247 /ug=Rn.10141 /len=1305		

Table 2.

U37099	8503	AAC52 704	8504	NIM_0028 66	8505	P20336	8506	88	GTP-binding protein (rab3c) mRNA, partial cds	U37099 RNU37099 Rattus norvegicus small GTP-binding protein (rab3c) mRNA, partial cds
U37138	8507	P15589	8508	M16505	8509	P08842	8510	80	Steroid sulfatase (Sis)	U37138 Rattus norvegicus steroid sulfatase (Sis) mRNA, complete cds /cds=(526,2259) /gb=U37138 /gi=1045641 /ug=Rn.6312 /len=2457
U37142	8511	P55068	8512	NIM_0219 48	8513	NP_068 767	8514	90	Brevican core protein	U37142 Rattus norvegicus brevican core protein mRNA, complete cds /cds=(59,2710) /gb=U37142 /gi=1143284 /ug=Rn.10315 /len=3077
										MICROSOM AL MEMBRANE. THE SEQUENCE SHOWS SEVERAL MEMBRANE- SPANNING DOMAINS THAT COULD SERVE TO ANCHOR THE PROTEIN IN THE MICROSOM AL MEMBRANE.
										SECRETED; EXTRACELL ULAR MATRIX AND ONE FORM ATTACHED TO THE MEMBRANE BY A GPI- ANCHOR.
										Steryl-sulfatase precursor (EC 3.1.6.2) (Steroid sulfatase) (Steryl-sulfate sulfohydrolase (Arylsulfatase C) (ASC).
										Brevican core protein precursor (Brain enriched hyaluronan bindingprotein) (BEHAB protein).

Table 2.

U37464	8515	Q82862	8516	U71088	8517	Q13163	8518	91.52	MEK5alpha-2 (MEK5)	U37464 Rattus norvegicus MEK5alpha-2 (MEK5) mRNA, complete cds /cds=(87,1403) /gb=U37464 /g =1016335 /ug=Rn.11054 /len=1742	"CYTOPLAS MIC (FOR MEK5-BETA) AND PARTICULA TE (MEK5- ALPHA). THE ALTERNATI VELY SPLICED EXON IN ALPHA ISOFORM RESEMBLE CONSERVE D SEQUENCE S THAT MEDIATE INTERACTIO NS WITH THE CYTOSKELE TON, -	Dual specificity mitogen- activated protein kinase kinase 5(EC 2.7.1.-) (MAP kinase 5) (MAPKK 5) (MAPK/JERK kinase 5).
U38253	8519	P70541	8520	BC018728	8521	Q9NR50	8522	88.59	Rattus norvegicus Initiation factor eIF-2B gamma subunit (eIF- 2B gamma) mRNA, complete cds	U38253 Rattus norvegicus Initiation factor eIF-2B gamma subunit (eIF-2B gamma) mRNA, complete cds /cds=(88,1446) /gb=U38253 /g =1537014 /ug=Rn.10577 /len=1470	Translation Initiation factor eIF-2B gamma subunit (eIF-2B GDP- GTPexchange factor).	
U38253	8523	P70541	8524	BC018728	8525	Q9NR50	8526	88.59	Rattus norvegicus Initiation factor eIF-2B gamma subunit (eIF- 2B gamma)	U38253 Rattus norvegicus Initiation factor eIF-2B gamma subunit (eIF-2B gamma) mRNA, complete cds /cds=(88,1446) /gb=U38253 /g =1537014 /ug=Rn.10577 /len=1470	Translation Initiation factor eIF-2B gamma subunit (eIF-2B GDP- GTPexchange factor).	

Table 2.

U38253	8527	P70541	8528	BC018728	8528	Q9NR50	8530	88.59	Rattus norvegicus Initiation factor eIF-2B gamma subunit (eIF-2B gamma mRNA, complete cds	A1639441	U38253 Rattus norvegicus initiation factor eIF-2B gamma subunit (eIF-2B gamma mRNA, complete cds /cds=(88,1446) /gb=U38253 /gi=1537014 /ug=Rn.10577 /len=1470	Translation Initiation factor eIF-2B gamma subunit (eIF-2B GDP- GTPexchange factor).
U38376	8531	P50393	8532	M68874	8533	P47712	8534	88.92	Rattus norvegicus cytosolic phospholipase A2 mRNA, complete cds		U38376 Rattus norvegicus cytosolic phospholipase A2 mRNA, complete cds /cds=(172,2430) /gb=U38376 /gi=143304 /ug=Rn.10162 /len=2838	CYTOSOLIC PHOSPHOLIPASE A2 (CPLA2) [Includes: Phospholipase A2(EC 3.1.1.4) (Phosphatidylch oline 2- acylhydrolase); Lysophospholip ase(EC 3.1.1.5)].
U38801	8535	P08766	8536	M13140	8537	P08746	8538	89.55	high molecular weight DNA polymerase beta		U38801 Rattus norvegicus high molecular weight DNA polymerase beta (mpolb) mRNA, complete cds /cds=(7,1014) /gb=U38801 /gi=1055329 /ug=Rn.9348 /len=3257	DNA polymerase beta (EC 2.7.7.7).

Table 2.

U39044	8539	Q62871	8540	AF250307	8541	Q13409	8542	85	Rattus norvegicus cytoplasmic dynein intermediate chain 2C mRNA, complete cds	U39044 Rattus norvegicus cytoplasmic dynein intermediate chain 2A mRNA, complete cds /cds=(70,1986) /gb=U39044 /gi=1151080 /ug=Rn.11014 /len=2538	"Dynein Intermediate chain 2, cytosolic (DH IC-2) (Cytoplasmic dynein intermediate chain 2)."
U39572	8543	AAD10400	8544	AK024034	8545	P42356	8546	93.91	Phosphatidylinositol 4-kinase	U39572 RNU39572 Rattus norvegicus phosphatidylinositol 4-kinase mRNA, complete cds	
U41845	8547	O08587	8548	NIM_007172	8549	Q9UKX7	8550	85.95	Nuclear pore associated protein	U41845 Rattus norvegicus putative nuclear pore complex protein (Npnp60) mRNA, complete cds /cds=(320,1465) /gb=U41845 /gi=1915964 /ug=Rn.3242 /len=2894	"Nuclear. Localizes to the nucleoplasmic fibrils of the nuclear pore complex. In the testis, the localization changes during germ cell differentiation; from the nuclear surface in spermatocytes to the"
U42413	8551	P80385	8552	U42412	8553	P54619	8554	88.77	Rattus norvegicus 5'-AMP-activated protein kinase, gamma-1 subunit	U42413 Rattus norvegicus 5'-AMP-activated protein kinase, gamma-1 subunit mRNA, complete cds /cds=(0,871) /gb=U42413 /gi=1335859 /ug=Rn.11089 /len=1550	"5'-AMP-activated protein kinase, gamma-1 subunit (AMPK gamma-1 chain)(AMPKg)."

Table 2.

U42627	8555	Q64346	8556	XM_017018	XP_017018	83	dual-specificity protein tyrosine phosphatase	U42627 Rattus norvegicus dual-specificity protein tyrosine phosphatase (rVH6) mRNA, complete cds /cds=(360,1505) /gb=U42627 /gi=1185551 /ug=Rn.4313 /len=2104	Cytoplasmic.	Dual specificity protein phosphatase 6 (EC 3.1.3.48) (EC 3.1.3.16)(Mitogen-activated protein kinase phosphatase 3) (MAP kinase phosphatase 3) (MKP-3).
U42719	8557	AAA91231	8558	NM_007293	P01028	8560	Complement component 4	U42719 Rattus norvegicus C4 complement protein mRNA, partial cds /cds=(0,317) /gb=U42719 /gi=1213489 /ug=Rn.24813 /len=347		
U42976	8561	P12392	8562	U48861	P30926	8564	Rattus norvegicus neuronal nicotinic acetylcholine receptor subunit beta4 mRNA, complete cds	U42976 Rattus norvegicus neuronal nicotinic acetylcholine receptor subunit beta4 mRNA, complete cds /cds=(60,1547) /gb=U42976 /gi=1150980 /ug=Rn.8695 /len=2461	Integral membrane protein.	"Neuronal acetylcholine receptor protein, beta-4 chain precursor(Neural acetylcholine receptor non-alpha-2 chain) (N-alpha 2)." (N-alpha 2).
U44948	8565	Q62908	8566	U46006	Q16527	8568	Rattus norvegicus smooth muscle cell LIM protein (SmLIM) mRNA, complete cds	U44948 Rattus norvegicus smooth muscle cell LIM protein (SmLIM) mRNA, complete cds /cds=(34,635) /gb=U44948 /gi=1314350 /ug=Rn.4267 /len=847	Nuclear.	Smooth muscle cell LIM protein (Cysteine-rich protein 2) (CRP2).



Table 2.

U47316	8569	AAH03 736	8570	AF041432	8571	O43617	8572	93.39	Mus musculus, Bet3 homolog	BC003736	U47316 RNU47316 Rat R2 cerebellum DDRT-T-PCR Rattus norvegicus cDNA clone LIAREST-2, mRNA sequence [Rattus norvegicus] U48246 Rattus norvegicus protein kinase C- binding protein Nel-homolog protein mRNA, partial cds /cds=(0,1298) /gb=U48246 /gl=1198664 /ug=Rn.10685 /len=1697	Secreted.	Protein kinase C binding protein NEL1 precursor (NEL- like protein 1).
U48246	8573	Q62919	8574	U57523	8575	Q92832	8576	87.46	Protein kinase C-binding protein NELL1		U48246 Rattus norvegicus protein kinase C- binding protein Nel-homolog protein mRNA, partial cds /cds=(0,1298) /gb=U48246 /gl=1198664 /ug=Rn.10685 /len=1697	Secreted.	Protein kinase C binding protein NEL1 precursor (NEL- like protein 1).
U48592	8581	AAB035 02	8582	AF029213	8583	NP_002 173	8584	86.86	Interleukin-1 receptor accessory protein		U48592 Rattus norvegicus Interleukin-1 receptor accessory protein (IL-1) mRNA, complete cds /cds=(102,1814) /gb=U48592 /gl=1403699 /ug=Rn.10511 /len=1862		
U48596	8585	Q62925	8586	XM_04206 6	8587	XP_042 066	8588	81	MAP kinase kinase kinase 1 (MEKK1)	MEMBRANE ASSOCIATE D.	U48596 Rattus norvegicus MAP kinase kinase kinase 1 (MEKK1) mRNA, complete cds /cds=(515,4996) /gb=U48596 /gl=1354136 /ug=Rn.11081 /len=5180		Mitogen- activated protein kinase kinase 1 (EC 2.7.1.- ) (MAPK/ERK ) (MEK kinase 1) (MEKK 1).
U48596	8589	Q62925	8590	XM_04206 6	8591	XP_042 066	8592	81	MAP kinase kinase kinase 1 (MEKK1)	MEMBRANE ASSOCIATE D.	U48596 Rattus norvegicus MAP kinase kinase kinase 1 (MEKK1) mRNA, complete cds /cds=(515,4996) /gb=U48596 /gl=1354136 /ug=Rn.11081 /len=5180		Mitogen- activated protein kinase kinase 1 (EC 2.7.1.- ) (MAPK/ERK ) (MEK kinase 1) (MEKK 1).

Table 2.

U49058	8593	No Rat Protein Found.	8595	8596	No Human Protein Found.	84.52	CTD-binding SR-like protein rA4 mRNA (alternatively spliced no protein added here)	U49058 Rattus norvegicus CTD-binding SR-like protein rA4 mRNA, partial cds /cds=UNKNOWN /gb=U49058 /gi=1438535 /ug=Rn.10531 /len=4180	Attached to the membrane by a GPI-anchor.	Signal transducer CD24 precursor (Heat stable antigen) (HSA)(Nectadrin).
U49062	8594	Q07490	8595	8596	No Human Protein Found.	84.52	heat stable antigen CD24	U49062 Rattus norvegicus heat sle antigen CD24 mRNA, complete cds /cds=(59,289) /gb=U49062 /gi=1216487 /ug=Rn.8007 /len=1703	Attached to the membrane by a GPI-anchor.	Signal transducer CD24 precursor (Heat stable antigen) (HSA)(Nectadrin).
U49062	8597	Q07490	8598	8599	No Human Protein Found.	84.52	heat stable antigen CD24	U49062 Rattus norvegicus heat sle antigen CD24 mRNA, complete cds /cds=(59,289) /gb=U49062 /gi=1216487 /ug=Rn.8007 /len=1703	Attached to the membrane by a GPI-anchor.	Signal transducer CD24 precursor (Heat stable antigen) (HSA)(Nectadrin).
U49099	8600	Q62931	8601	8602	O95249	90.84	Golgi SNAP receptor complex member 1	U49099 Rattus norvegicus cis-Golgi p28 (p28) mRNA, complete cds /cds=(9,761) /gb=U49099 /gi=1354151 /ug=Rn.6390 /len=2412	TYPE IV MEMBRANE PROTEIN. ENRICHED ON VESICULAR COMPONENTS AT THE TERMINAL RIMS OF THE GOLGI.	28 kDa Golgi SNARE protein (Golgi SNAP receptor complex member 1)(28 kDa cis-Golgi SNARE p28) (GOS-28).

Table 2.

U49953	8604	P36485	8605	XM_034970	XP_034970	92	protein kinase MUK2	U49953 Rattus norvegicus protein kinase MUK2 mRNA, complete cds (386,2022) /gb=U49953 /gi=1399507 /ug=Rn.3149 /len=2539	Serine/threonine protein kinase PAK 1 (EC 2.7.1.1) (p21-activated kinase 1) (PAK-1) (P68-PAK) (Alpha-PAK) (Protein kinase MUK2).
U50185	8606	AAA929	8607	XM_006578	XP_006578	79	Rattus norvegicus kidney protein phosphatase 1 myosin binding subunit mRNA, partial cds	U50185 RNU50185 Rattus norvegicus kidney protein phosphatase 1 myosin binding subunit mRNA, partial cds	
U50185	8610	AAA929	8611	XM_028840	XP_028840	37	protein phosphatase 1	U50185 RNU50185 Rattus norvegicus kidney protein phosphatase 1 myosin binding subunit mRNA, partial cds	
U50185	8614	AAA929	8615	XM_006578	XP_006578	79	Rattus norvegicus kidney protein phosphatase 1 myosin binding subunit mRNA, partial cds	U50185 RNU50185 Rattus norvegicus kidney protein phosphatase 1 myosin binding subunit mRNA, partial cds	
U50185	8618	AAA929	8619	XM_028840	XP_028840	37	protein phosphatase 1	U50185 RNU50185 Rattus norvegicus kidney protein phosphatase 1 myosin binding subunit mRNA, partial cds	
U50353	8622	AAC99	8623	NM_021010	NP_066280	35	defensin 3a (RatNP-3a)	U50353 mRNA RNU50353 Rattus norvegicus defensin 3a (RatNP-3a) gene, complete cds	

Table 2.

U50412	8628	Q83787	8627	XM_043865	8628	XP_043865	8629	87	Phosphoinositide 3-kinase p85	NM_013005	U50412 Rattus norvegicus phosphoinositide 3-kinase regulatory subunit p85alpha mRNA, alternatively spliced, complete cds /cds=(84,1368) /gb=U50412 /gi=1621037 /ug=Rn.10599 /len=1583	Phosphatidylinositol 3-kinase regulatory alpha subunit (PI3-kinase p85-alpha subunit) (PtdIns-3-kinase p85-alpha) (PI3K).
U50736	8630	A44437	8631	BF081129	8632	A57291	8636	93.88	Cardiac ankyrin repeat protein		U50736 RNU50736 Rattus norvegicus cardiac adriamycin responsive protein mRNA, complete cds	
U51013	8633	AAC52683	8634	AF082324	8635	NP_006860	8636	87.96	Centaurin alpha		U51013 Rattus norvegicus centaurin alpha mRNA, complete cds /cds=(112,1371) /gb=U51013 /gi=1435184 /ug=Rn.10539 /len=2424	
U52530	8637	AAC53050	8638	M29366	8639	P21860	8640	70	erbB3 proto-oncogene		U52530 RNU52530 Rattus norvegicus erbB3 proto-oncogene mRNA, partial cds	
U52663	8641	AAC05607	8642	AF010472	8643	P19021	8644	88	peptidylglycine alpha-amidating monoxygenase (PAM) gene		U52663mRNA#3 RATPAM27 Rattus norvegicus peptidylglycine alpha-amidating monoxygenase (PAM) gene, exon 26	
U52950	8645	AAB17066	8646	NM_005909	8647	NP_005900	8648	89	Microtubule-associated protein 1B mRNA		U52950 RNU52950 Rattus norvegicus microtubule-associated protein 1B mRNA, partial cds	
U52950	8649	CAC16162	8650	L06237	8651	AAA18904	8652		Microtubule-associated protein 1B	X60370	U52950 RNU52950 Rattus norvegicus microtubule-associated protein 1B mRNA, partial cds	
U52950	8653	AAB17068	8654	NM_005909	8655	NP_005900	8656	89	Microtubule-associated protein 1B mRNA		U52950 RNU52950 Rattus norvegicus microtubule-associated protein 1B mRNA, partial cds	
U52950	8657	CAC16162	8658	L06237	8659	AAA18904	8660		Microtubule-associated protein 1B	X60370	U52950 RNU52950 Rattus norvegicus microtubule-associated protein 1B mRNA, partial cds	

Table 2.

U53184	8661	No Rat Protein Found.	AB034747	8662	Q99732	8663	83.41	estrogen-responsive uterine mRNA	AI237535	U53184 Rattus norvegicus estrogen-responsive uterine mRNA, partial sequence /cde=UNKNOWN /gb=U53184 /gi=1279978 /ug=Rn.6940 /len=2006	
NM_030999	8664	NP_112261	8665	8666	P34998	8667	86	Rattus norvegicus corticotropin releasing factor receptor	U53486	U53486mRNA RNCRRF 1 Rattus norvegicus corticotropin releasing factor receptor gene, exon 1	
U53706	8668	Q62987	8669	8670	P53602	8671	78	mevalonate pyrophosphate decarboxylase		U53706 Rattus norvegicus mevalonate pyrophosphate decarboxylase mRNA, complete cds /cde=(42,1247) /gb=U53706 /gi=1297191 /ug=Rn.10288 /len=1674	Diphosphomevalonate decarboxylase (EC 4.1.1.33) (Mevalonate pyrophosphate decarboxylase) (Mevalonate (diphospho) decarboxylase).
U53922	8672	P54102	8673	8674	P31689	8675	92.97	DnaJ-like protein (RDJ1) mRNA, complete cds		U53922 Rattus norvegicus DnaJ-like protein (RDJ1) mRNA, complete cds /cde=(121,1314) /gb=U53922 /gi=1294829 /ug=Rn.10276 /len=1610	DnaJ homolog subfamily A member 1 (Heat shock 40 kDa protein 4) (DnaJ protein homolog 2) (HSJ-2).

Membrane-bound.

Table 2.

U54632	8676	P50550	8677	U29092	8678	P50550	8679	93.2	Ubiquitin conjugating enzyme E2l	U54632 RNU54632 Rattus norvegicus ubiquitin-conjugating enzyme UbcE2A mRNA, complete cds	Ubiquitin-like protein SUMO-1 conjugating enzyme (EC 6.3.2.19) (SUMO-1- protein ligase) (Ubiquitin carrier protein) (Ubiquitin- conjugating enzy- me UbcE2A) (P18).
U54632	8680	P50550	8681	U29092	8682	P50550	8683	93.2	Ubiquitin conjugating enzyme E2l	U54632 RNU54632 Rattus norvegicus ubiquitin-conjugating enzyme UbcE2A mRNA, complete cds	Ubiquitin-like protein SUMO-1 conjugating enzyme (EC 6.3.2.19) (SUMO-1- protein ligase) (Ubiquitin carrier protein) (Ubiquitin- conjugating enzy- me UbcE2A) (P18).
U55815	8684	AAC52 634	8685	AK024493	8686	NP_005 063	8687	92.81	Solute carrier family 12, member 4	U55815 Rattus norvegicus furosemide- sensitive K-Cl cotransporter (KCC1) mRNA, complete cds /cds=(0,3257) /gb=U55815 /gi=1403706 /ug=Rn.10512 /len=3726	
U55815	8688	AAC52 634	8689	AK024493	8690	NP_005 063	8691	92.81	Furosemide- sensitive K-Cl cotransporter	U55815 Rattus norvegicus furosemide- sensitive K-Cl cotransporter (KCC1) mRNA, complete cds /cds=(0,3257) /gb=U55815 /gi=1403706 /ug=Rn.10512 /len=3726	

Table 2.

U55815	8692	AAC52 834	8693	AK024493	8694	NP_005 083	8695	92.81	Solute carrier family 12, member 4	U55815 Rattus norvegicus furosemide- sensitive K-Cl cotransporter (KCC1) mRNA, complete cds /cds=(0,3257) /gb=U55815 /gl=1403706 /ug=Rn.10512 /len=3726		
U56839	8696	P41232	8697	BC012104	8698	P41231	8699	87	Purifergic receptor P2Y, G-protein coupled 2	U56839 Rattus norvegicus P2u receptor protein mRNA, complete cds /cds=(141,1265) /gb=U56839 /gl=1336124 /ug=Rn.11102 /len=1688	Integral membrane protein.	P2Y purinoceptor 2 (P2Y2) (P2U purinoceptor 1) (P2U1) (ATP receptor)(Purine nucleic receptor).
U56862	8700	Q62881	8701	AL542378	8702	Q15072	8703	89.47	Pancreas zinc finger protein	U56862 RNU56862 Rattus norvegicus pancreas only zinc finger protein (POZF-1) mRNA, complete cds	Nuclear	Zinc finger protein OZF (POZF-1).
U57391	8704	AAC52 601	8705	AB037720	8706	AAF739 12	8707	89.47	FcεRI gamma- chain interacting protein SH2-B	U57391 Rattus norvegicus FcεRI gamma- chain interacting protein SH2-B (SH2-B) mRNA, complete cds /cds=(343,2613) /gb=U57391 /gl=1354854 /ug=Rn.11069 /len=3003		
U57391	8708	AAC52 601	8709	AB037720	8710	AAF739 12	8711	89.47	FcεRI gamma- chain interacting protein SH2-B	U57391 Rattus norvegicus FcεRI gamma- chain interacting protein SH2-B (SH2-B) mRNA, complete cds /cds=(343,2613) /gb=U57391 /gl=1354854 /ug=Rn.11069 /len=3003		
U57715	8712	AAB070 50	8713	XM_05287 1		XP_052 871		88	FGF receptor activating protein FRAG1	U57715 Rattus norvegicus FGF receptor activating protein FRAG1 (FRAG1) mRNA, complete cds /cds=(722,1486) /gb=U57715 /gl=1518608 /ug=Rn.11001 /len=1719		
U59241	8714	AAC52 855	8715	M77016	8716	P28289	8717	89.04	E- Tropomodulin	U59241 Rattus norvegicus E-tropomodulin mRNA, complete cds /cds=(49,1128) /gb=U59241 /gl=1628560 /ug=Rn.10605 /len=1353		

Table 2.

U59241	8718	AAC52 855	8719	IM77016	8720	P28289	8721	89.04	E- Tropomodulin		U59241 Rattus norvegicus E-tropomodulin mRNA, complete cds /cds=(49,1128) /gb=U59241 /gi=1628560 /ug=Rn.10605 /len=1353		
U59672	8722	AAB182 93	8723	AJ003078	8724	P46098	8725	84.68	5- Hydroxytrypta mine (serotonin) receptor 3A		U59672 Rattus norvegicus 5HT3 receptor mRNA, complete cds /cds=(347,1780) /gb=U59672 /gi=1389902 /ug=Rn.761 /len=2230		
U59672	8726	AAB182 93	8727	AJ003078	8728	P46098	8729	84.68	5- Hydroxytrypta mine (serotonin) receptor 3A		U59672 Rattus norvegicus 5HT3 receptor mRNA, complete cds /cds=(347,1780) /gb=U59672 /gi=1389902 /ug=Rn.761 /len=2230		
U60578	8730	AAC53 104	8731	NIM_0000 67	8732	P00918	8733	80	Carbonic anhydrase II	NM_01929 1	U60578cds RNCA118 Rattus norvegicus carbonic anhydrase II gene, exon 7 and partial cds		
U60882	8734	Q63009	8735	AK026786	8736	XP_046 320	8737	93.07	protein arginine N- methyltransfer ase		U60882 Rattus norvegicus protein arginine N- methyltransferase (PRMT1) mRNA, complete cds /cds=(2,1063) /gb=U60882 /gi=1390024 /ug=Rn.5870 /len=1201	Nuclear.	Protein arginine N- methyltransferase 1 (EC 2.1.1.- ).
U61184	8738	P41739	8739	AF001307	8740	P27540	8741	92.25	Aryl hydrocarbon receptor nuclear translocator 1		U61184 Rattus norvegicus aryl hydrocarbon receptor nuclear translocator 1 (Ahr1) mRNA, complete cds /cds=(8,2410) /gb=U61184 /gi=1418281 /ug=Rn.10520 /len=2431	Nuclear.	"Aryl hydrocarbon receptor nuclear translocator (ARNT protein) (Dioxinreceptor, nuclear translocator) (Hypoxa- inducible factor 1 beta)(HIF-1 beta)."



Table 2.

U61373	8742	Q63645	8743	BC012453	8744	P55085	8745	83.71	proteinase-activated receptor-2	AI235492	U61373 Rattus norvegicus proteinase-activated receptor-2 mRNA, complete cds /cds=(0,1193) /gb=U61373 /gi=1480887 /ug=Rn.10543 /len=1428	Integral membrane protein.	Proteinase activated receptor 2 precursor (PAR-2) (Thrombin receptor-like 1) (Coagulation factor II receptor like 1).
U61729	8748	AAB09057	8747	AW974441	8748	NP_006804	8749	91.26	Rattus norvegicus proline rich protein mRNA, complete cds		U61729 Rattus norvegicus proline rich protein mRNA, complete cds /cds=(175,984) /gb=U61729 /gi=1408276 /ug=Rn.10987 /len=1619		
U62316	8750	Q63344	8751	AF058056	8752	O60669	8753	82.72	Solute carrier family 16 (monocarboxylic acid transporters), member 7		U62316 Rattus norvegicus monocarboxylate transporter 2 (MCT2) mRNA, complete cds /cds=(234,1703) /gb=U62316 /gi=1432166 /ug=Rn.10524 /len=2481	Integral membrane protein. Plasma membrane.	Monocarboxylate transporter 2 (MCT 2).
U62316	8754	Q63344	8755	AF058056	8756	O60669	8757	82.72	Solute carrier family 16 (monocarboxylic acid transporters), member 7		U62316 Rattus norvegicus monocarboxylate transporter 2 (MCT2) mRNA, complete cds /cds=(234,1703) /gb=U62316 /gi=1432166 /ug=Rn.10524 /len=2481	Integral membrane protein. Plasma membrane.	Monocarboxylate transporter 2 (MCT 2).
U62635	8758	AAB05795	8759	U26596	8760	NP_066957	8761	84.8	ribosomal protein L23-related product		U62635 RRU62635 Rattus rattus ribosomal protein L23-related product homolog (L23MRP) mRNA, complete cds		

Table 2.

U63740	8762	P97577	8763	U60060	8764	Q99889	8765	92.59	Synaptotagmin n binding zygInl	U63740 Rattus norvegicus synaptotagmin binding zygInl mRNA, complete cds /cds=(154,1335) /gb=U63740 /gi=1778088 /ug=Rn.5488 /len=1683	INTRACELL ULAR. TRANSLOC ATED FROM THE PLASMA MEMBRANE TO THE CYTOPLAS M BY ACTIVATION OF THE PKC ZETA.	Fasciculation and elongation protein zeta 1 (Zygin I).
U63972	8766	Q83652	8767	NM_0017 08	8768	P03999	8769	87.23	Blue cone opsin-like pigment	U63972 Rattus norvegicus blue cone opsin- like pigment mRNA, complete cds /cds=(48,1088) /gb=U63972 /gi=1488319 /ug=Rn.10549 /len=1690	Integral membrane protein.	Blue-sensitive opsin (Blue cone photoreceptor pigment).
U64030	8770	P70583	8771	NM_0019 48	8772	P33316	8773	87	dUTPase	U64030 Rattus norvegicus dUTPase mRNA, complete cds /cds=(13,824) /gb=U64030 /gi=1654341 /ug=Rn.6102 /len=928	CYTOPLAS MIC. BINDING TO PPAR INDUCES TRANSLOC ATION TO THE NUCLEUS.	Deoxyuridine 5'- triphosphate nucleotidohydroly ase (EC 3.6.1.23)(dUTP ase) (dUTP pyrophosphatas e) (PPAR- interacting protein 4) (PIP4).
U64689	8774	P97578	8775	U69140	8776	Q9UHY8	8777	84	Rattus norvegicus zygIn-related protein type II (Zp2) mRNA, partial cds	U64689 RN1U64689 Rattus norvegicus synaptotagmin interacting protein zygInII mRNA, partial cds		Fasciculation and elongation protein zeta 2 (Zygin II) (Zygin- related protein types I/II) (Fragment).

Table 2.

U65007	8778	P97523	8779	U11813	8780	P08581	8781	92.61	Met proto-oncogene	U65007 Rattus norvegicus hepatocyte growth factor receptor mRNA, complete cds /cds=(0,4148) /gb=U65007 /gi=1679659 /ug=Rn.10617 /len=4189	Type I membrane protein.	Hepatocyte growth factor receptor precursor (EC 2.7.1.112) (Met proto-oncogene tyrosine kinase) (c-met) (HGF receptor) (HGF-SF receptor).
U65217	8782	AAB39559	8783	M16276	8784	P01919	8785	72	class II antigen RT1.B beta chain	U65217 Rattus norvegicus MHC class II antigen RT1.B beta chain mRNA, partial cds /cds=(0,590) /gb=U65217 /gi=1762639 /ug=Rn.18105 /len=620		
U65417	8786	AAB49752	8787	NM_006143	8788	NP_006134	8789	92	Rattus norvegicus G protein-coupled receptor (GPR19) gene, partial cds	U65417 cds RNU65417 Rattus norvegicus G protein-coupled receptor (GPR19) gene, partial cds		
U65656	8790	P33436	8791	AU123141	8792	P05455	8793	90.29	Rattus norvegicus gelatinase A mRNA, complete cds	U65656 Rattus norvegicus gelatinase A mRNA, complete cds /cds=(291,2279) /gb=U65656 /gi=1813502 /ug=Rn.6422 /len=3040		72 kDa type IV collagenase precursor (EC 3.4.24.24) (72 kDagelatinase) (Matrx metalloproteinase-2) (MMP-2) (Gelatinase A).
U68470	8794	AAC52950	8795	U66468	8796	XP_002427	8797	80.05	cell growth regulator rCGR11	U68470 Rattus norvegicus cell growth regulator rCGR11 mRNA, complete cds /cds=(59,904) /gb=U68470 /gi=1724074 /ug=Rn.10638 /len=1257		

Table 2.

U66471	8798	AAC52 951	8799	U66469	8800	NP_006 559	8801	87.88	Rattus norvegicus cell growth regulator rCGR19 mRNA, complete cds	U66471 Rattus norvegicus cell growth regulator rCGR19 mRNA, complete cds /cds=(100,1098) /gb=U66471 /gi=1724076 /lug=Rn.11138 /len=1265	U66471 Rattus norvegicus cell growth regulator rCGR19 mRNA, complete cds /cds=(100,1098) /gb=U66471 /gi=1724076 /lug=Rn.11138 /len=1265	U66478 Rattus norvegicus mothers against dpp 1 homolog (Mad1) mRNA, complete cds /cds=(315,1721) /gb=U66478 /gi=1710128 /lug=Rn.10635 /len=2002	U66478 Rattus norvegicus mothers against dpp 1 homolog (Mad1) mRNA, complete cds /cds=(315,1721) /gb=U66478 /gi=1710128 /lug=Rn.10635 /len=2002	Mothers against decapentaplegic homolog 1 (SMAD 1) (Mothers againstDPP homolog 1).	Mothers against decapentaplegic homolog 1 (SMAD 1) (Mothers againstDPP homolog 1).
U66471	8802	AAC52 951	8803	U66469	8804	NP_006 559	8805	87.88	Rattus norvegicus cell growth regulator rCGR19 mRNA, complete cds	U66471 Rattus norvegicus cell growth regulator rCGR19 mRNA, complete cds /cds=(100,1098) /gb=U66471 /gi=1724076 /lug=Rn.11138 /len=1265	U66471 Rattus norvegicus cell growth regulator rCGR19 mRNA, complete cds /cds=(100,1098) /gb=U66471 /gi=1724076 /lug=Rn.11138 /len=1265	U66478 Rattus norvegicus mothers against dpp 1 homolog (Mad1) mRNA, complete cds /cds=(315,1721) /gb=U66478 /gi=1710128 /lug=Rn.10635 /len=2002	U66478 Rattus norvegicus mothers against dpp 1 homolog (Mad1) mRNA, complete cds /cds=(315,1721) /gb=U66478 /gi=1710128 /lug=Rn.10635 /len=2002	Mothers against decapentaplegic homolog 1 (SMAD 1) (Mothers againstDPP homolog 1).	Mothers against decapentaplegic homolog 1 (SMAD 1) (Mothers againstDPP homolog 1).
U66478	8806	P87588	8807	U59423	8808	Q15797	8809	98	MAD (mothers against decapentaplegic, Drosophila) homolog 1	U66478 Rattus norvegicus mothers against dpp 1 homolog (Mad1) mRNA, complete cds /cds=(315,1721) /gb=U66478 /gi=1710128 /lug=Rn.10635 /len=2002	U66478 Rattus norvegicus mothers against dpp 1 homolog (Mad1) mRNA, complete cds /cds=(315,1721) /gb=U66478 /gi=1710128 /lug=Rn.10635 /len=2002	U66478 Rattus norvegicus mothers against dpp 1 homolog (Mad1) mRNA, complete cds /cds=(315,1721) /gb=U66478 /gi=1710128 /lug=Rn.10635 /len=2002	U66478 Rattus norvegicus mothers against dpp 1 homolog (Mad1) mRNA, complete cds /cds=(315,1721) /gb=U66478 /gi=1710128 /lug=Rn.10635 /len=2002	Mothers against decapentaplegic homolog 1 (SMAD 1) (Mothers againstDPP homolog 1).	Mothers against decapentaplegic homolog 1 (SMAD 1) (Mothers againstDPP homolog 1).
U66478	8810	P87588	8811	U59423	8812	Q15797	8813	98	MAD (mothers against decapentaplegic, Drosophila) homolog 1	U66478 Rattus norvegicus mothers against dpp 1 homolog (Mad1) mRNA, complete cds /cds=(315,1721) /gb=U66478 /gi=1710128 /lug=Rn.10635 /len=2002	U66478 Rattus norvegicus mothers against dpp 1 homolog (Mad1) mRNA, complete cds /cds=(315,1721) /gb=U66478 /gi=1710128 /lug=Rn.10635 /len=2002	U66478 Rattus norvegicus mothers against dpp 1 homolog (Mad1) mRNA, complete cds /cds=(315,1721) /gb=U66478 /gi=1710128 /lug=Rn.10635 /len=2002	U66478 Rattus norvegicus mothers against dpp 1 homolog (Mad1) mRNA, complete cds /cds=(315,1721) /gb=U66478 /gi=1710128 /lug=Rn.10635 /len=2002	Mothers against decapentaplegic homolog 1 (SMAD 1) (Mothers againstDPP homolog 1).	Mothers against decapentaplegic homolog 1 (SMAD 1) (Mothers againstDPP homolog 1).

Table 2.

U67081	8814	AAB407 18	8815	AK057398	8816	AAF140 51	8817	93.21	C2-HC type zinc finger protein r-MyT2 mRNA	U67081 Rattus norvegicus C2-HC type zinc finger protein r-MyT2 mRNA, complete cds /cds=(0,2448) /gb=U67081 /gi=1531646 /ug=Rn.10559 /len=2812	Membrane- associated.	Disks large- associated protein 4 (DAP- 4) (SAP90/PSD- 95- associated protein) n 4) (SAPAP4) (PSD-95/SAP90 binding protein 4).
U67140	8818	P97839	8819	XM_02863 4		XP_028 634		73	PSD- 95/SAP90- associated protein-4 mRNA	U67140 Rattus norvegicus PSD-95/SAP90- associated protein-4 mRNA, complete cds /cds=(204,3182) /gb=U67140 /gi=1864092 /ug=Rn.11278 /len=3348		
U67207	8820	S74225		U52912	8821	P48357	8822	78	Leptin receptor (fatty)	U67207 RNU67207 Rattus norvegicus leptin receptor (OB-R) mRNA, partial cds		
U67910	8823	P27435	8824	M30038	8825	P15157	8826	88.21	Mast cell protease 7 (RMCP-7)	U67910 Rattus norvegicus mast cell protease 7 (RMCP-7) mRNA, complete cds /cds=(216,1037) /gb=U67910 /gi=1698699 /ug=Rn.10699 /len=1222	RELEASED FROM THE SECRETORY GRANULES UPON MAST CELL ACTIVATION	"Mast cell protease 7 precursor (EC 3.4.21.59) (RMCP-7) (Trypsin, skin)."
U67915	8827	P09850	8828	M69136	8829	P23946	8830	85	Mast cell protease 1 precursor	U67915 Rattus norvegicus mast cell protease 1 precursor (RMCP-1) mRNA, complete cds /cds=(27,809) /gb=U67915 /gi=1698709 /ug=Rn.10701 /len=1018		Mast cell protease 1 precursor (EC 3.4.21.39) (RMCP-1) (RMCP- 1)(Chymase).

Table 2.

U67994	8831	AAB396 19	8832	X74330	8833	P49642	8834	90.27	Rattus norvegicus DNA primase small subunit mRNA, partial cds	U67994 Rattus norvegicus DNA primase small subunit mRNA, partial cds /cgs=(0.91) /gb=U67994 /gl=1763024 /ug=Rn.10649 /len=410
U68272	8835	AAB170 55	8836	AF056979	8837	P15260	8838	42	Interferon gamma receptor heart branched chain amino transferase precursor (BCATm) mRNA, nuclear gene encoding mitochondrial protein, complete cds /cgs=(7,1188) /gb=U68417 /gl=2342863 /ug=Rn.981 /len=1548	U68272 RNU68272 Rattus norvegicus interferon gamma receptor mRNA, partial cds
U68417	8839	O35854	8840	BC001900	8841	O15382	8842	81	amino transferase precursor (BCATm) mRNA, nuclear gene encoding mitochondrial protein, complete cds /cgs=(7,1188) /gb=U68417 /gl=2342863 /ug=Rn.981 /len=1548	U68417 Rattus norvegicus heart branched chain amino transferase precursor (BCATm) mRNA, nuclear gene encoding mitochondrial protein, complete cds /cgs=(7,1188) /gb=U68417 /gl=2342863 /ug=Rn.981 /len=1548
U68562	8843	U68562	8844	No human homolog found.		No Human Protein Found.			Rat chaperonin 60 (Hsp60) and chaperonin 10 (CPN10) two genes on a bidirectional promoter	U68562 mRNA#2 RNU68562 Rattus norvegicus chaperonin 60 (Hsp60) and chaperonin 10 (CPN10) genes, nuclear genes encoding mitochondrial proteins, complete cgs
U70211	8845	AAC53 322	8846	BI767712	8847	NP_057 421	8848	92.22	RNB6	U70211 Rattus norvegicus RNB6 mRNA, complete cds /cgs=(218,1398) /gb=U70211 /gl=2058461 /ug=Rn.9790 /len=1838
U70270	8849	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			Rattus norvegicus mud-4 mRNA, 3' UTR	U70270 UTR#1 RNMUD402 Rattus norvegicus mud-4 mRNA, 3' UTR

Mitochondrial  
"Branched-chain  
amino acid  
amino transferase  
precursor (EC  
2.6.1.42)  
(BCAT(m))."

Table 2.

U70779	8850	AA8477 48	8851	NIM_0035 86	8852	NP_003 577	8853	73	Doc2A	U70779 Rattus norvegicus Doc2A mRNA, complete cds /cds=(212,1423) /gb=U70779 /lg=1575773 /ug=Rn.10860 /len=1600	MITOCHON DRIAL MEMBRANE S AND PERINUCLE AR ENVELOPE.	Apoptosis regulator Bcl-x.
U72350	8854	P53563	8855	XM_04622 0		XP_046 220		91	Rattus norvegicus Bcl- xalpha mRNA, complete cds	U72350 Rattus norvegicus Bcl-xalpha mRNA, complete cds /cds=(71,772) /gb=U72350 /lg=1622936 /ug=Rn.10323 /len=1742		
U72497	8856	P97612	8857	AL050372	8858	O00519	8859	87.61	Fatty acid amide hydrolase	U72497 Rattus norvegicus fatty acid amide hydrolase mRNA, complete cds /cds=(49,1788) /gb=U72497 /lg=1680721 /ug=Rn.10819 /len=2462	MEMBRANE- BOUND. SEEMS TO BE ASSOCIATE D WITH THE ENDOPLAS MIC RETICULUM AND/OR GOLGI APPARATU S.	Fatty-acid amide hydrolase (EC 3.1.-.) (Oleamide hydrolase)(Anan damide amidohydrolase ).
U72741	8860	P97840	8861	AA810305	8862	O00182	8863	88.89	Lectin, galactose binding, soluble 9 (Galectin-9).	U72741 Rattus norvegicus 36 Kd beta- galactoside binding lectin mRNA, complete cds /cds=(5,1069) /gb=U72741 /lg=2351552 /ug=Rn.10708 /len=1070	CYTOPLAS MIC. MAY ALSO BE SECRETED BY A NON- CLASSICAL SECRETOR Y PATHWAY	Galectin-9 (36 kDa beta- galactoside binding lectin) (Uratetransporte r/channel) (UAT).

Table 2.

U72895	8864	AAC53 149	8865	AB002356	8866	XP_006 166	8867	94.55	Rab3 GDP/GTP exchange protein	U72895 Rattus norvegicus Rab3 GDP/GTP exchange protein mRNA, complete cds /cds=(191,4989) /gb=U72895 /gi=1947049 /lug=Rn.9786 /len=5249	
U73142	8868	P70618	8869	L35263	8870	Q16539	8871	91.28	p38 mitogen activated protein kinase	U73142 Rattus norvegicus p38 mitogen activated protein kinase mRNA, complete cds /cds=(11,1093) /gb=U73142 /gi=1621646 /lug=Rn.3293 /len=3132	Mitogen- activated protein kinase 14 (EC 2.7.1.-) (Mitogen activated protein kinase p38) (MAP kinase p38).
U73142	8872	P70618	8873	L35263	8874	Q16539	8875	91.28	p38 mitogen activated protein kinase	U73142 Rattus norvegicus p38 mitogen activated protein kinase mRNA, complete cds /cds=(11,1093) /gb=U73142 /gi=1621646 /lug=Rn.3293 /len=3132	Mitogen- activated protein kinase 14 (EC 2.7.1.-) (Mitogen activated protein kinase p38) (MAP kinase p38).
U73174	8876	AAB181 32	8877	XM_00511 9		1GRT	8878	84	Rattus norvegicus glutathione reductase mRNA, complete cds	U73174 RNU73174 Rattus norvegicus glutathione reductase mRNA, complete cds	
U73174	8879	AAB181 32	8880	XM_00511 9		1GRT	8881	84	Rattus norvegicus glutathione reductase mRNA, complete cds	U73174 RNU73174 Rattus norvegicus glutathione reductase mRNA, complete cds	



Table 2.

U73174	8882	AAB181 32	8883	XM_00511 9	1GRT	8884	84	Rattus norvegicus glutathione reductase mRNA, complete cds	U73174 RNU73174 Rattus norvegicus glutathione reductase mRNA, complete cds		
U73525	8885	P97615	8886	XM_03884 4	XP_038 644		87	Trx2	U73525 Rattus norvegicus thioredoxin mRNA, nuclear gene encoding mitochondrial protein, complete cds /cds=(55,555) /gb=U73525 /gi=1809118 /ug=Rn.967 /len=1261	Mitochondrial	Thioredoxin, mitochondrial precursor (Mit- TRX) (Thioredoxin 2)."
U75392	8887	AAB187 47	8888	NM_0072 73	NP_009 204	8890	80	B-cell receptor associated protein 37	U75392 RNBAP2 B-cell receptor associated protein 37 (BAP-37) mRNA, partial cds and 3 untranslated sequence		
U75916	8891	g18391 62		AK025185	g592440 8		93.02	Rattus norvegicus zonula occludens 2 protein (ZO-2) mRNA, partial cds	U75916 Rattus norvegicus zonula occludens 2 protein (ZO-2) mRNA, partial cds /cds=(0.2443) /gb=U75916 /gi=1839161 /ug=Rn.10965 /len=3329		
U75920	8893	AAB818 85	8894	NM_0123 25	Q15691	8896	95	APC binding protein EB1	U75920 RNAPCBP1 Rattus norvegicus APC binding protein EB1 mRNA, complete cds		
U75923	8897	AAB818 86	8898	No human homolog found.	No Human Protein Found.			Isooleucyl tRNA synthetase mRNA, partial cds and 3' untranslated sequence	U75923UTR#1 SEG_RNTRNAIS3 Rattus norvegicus Isooleucyl tRNA synthetase mRNA, partial cds and 3' untranslated sequence		
U75927	8899	NP_071 948	8900	NM_0018 65	P14408	8902	81	Cytochrome c oxidase subunit VIIa 3	U75927UTR#1 RNCOV12 Rattus norvegicus cytochrome oxidase subunit VIIa mRNA, 3 untranslated region, partial sequence		

Table 2.

U75973	8903	P70627	8904	AF254357	8905	Q04609	8906	89.81	NAAG-peptidase	U75973 Rattus norvegicus NAAG-peptidase mRNA, complete cds /cds=(22,2280) /gb=U75973 /gi=1661226 /ug=Rn.10609 /len=2899	Type II membrane protein. Plasma membrane.	Glutamate carboxypeptidase II (EC 3.4.17.21) (Membrane glutamatecarboxypeptidase) (mGCP) (N-acetylated-alpha linked acidic dipeptidase) (NAALADase I) (Pteroylpolyl-glutamate-gamma-carboxypeptidase)(Fo)
U76206	8907	O35881	8908	D13626	8909	Q15391	8910	81.37	Rattus norvegicus VTR 15-20 receptor mRNA, complete cds	U76206 Rattus norvegicus VTR 15-20 receptor mRNA, complete cds /cds=(238,1155) /gb=U76206 /gi=2459584 /ug=Rn.16317 /len=1690	Integral membrane protein.	UDP-glucose receptor (G protein-coupled receptor GPR105) (VTR 15-20).
U76252	8911	P07314	8912	AL117414	8913	P36269	8914	87.03	Gamma-glutamyl transferase-like activity 1	U76252 RNU76252 Rattus norvegicus gamma glutamyl transpeptidase-related enzyme mRNA, partial cds		
U76557	8916	P56558	8916	XM_047694		XP_047694		88	O-GlcNAc transferase	U76557 Rattus norvegicus O-GlcNAc transferase, p110 subunit (OGT) mRNA, complete cds /cds=(311,3421) /gb=U76557 /gi=1931578 /ug=Rn.9782 /len=4039	NUCLEAR AND CYTOPLASMIC (POSSIBLE).	UDP-N-acetylglucosamine-peptide N-acetylglucosaminyltransferase (EC 2.4.1.-) (O-GlcNAc transferase p110 subunit).

Table 2.

U76714	8917	AAD00 280	8918	AK002038	8919	NP_055 400	8920	91.59	Rattus norvegicus cell adhesion regulator (CAR1) mRNA, complete cds	U76714 RRU76714 Rattus norvegicus cell adhesion regulator (CAR1) mRNA, complete cds
U76714	8921	AAD00 260	8922	AK002038	8923	NP_055 400	8924	91.59	Rattus norvegicus cell adhesion regulator (CAR1) mRNA, complete cds	U76714 RRU76714 Rattus norvegicus cell adhesion regulator (CAR1) mRNA, complete cds
U77483	8925	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			guanine nucleotide- binding protein (Gz-alpha)	U77483mRNA RINGZAL2 Rattus norvegicus guanine nucleotide-binding protein (Gz-alpha) gene, exon 1 and 5 flanking region
U77583	8926	AAB192 28	8927	XM_04699 5		XP_046 995		83	casein kinase I alpha L	U77583 Rattus norvegicus casein kinase I alpha L (CKIaL) mRNA, complete cds /cds=(0,1061) /gb=U77583 /gi=1679789 /ug=Rn.12208 /len=1062
U77626	8928	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			formin binding protein 21 mRNA	U77626UTR#1 RNFBP21S2 Rattus norvegicus formin binding protein 21 mRNA, partial 3' UTR
U77829	8929	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			gas-5 growth arrest homolog	U77829mRNA RNU77829 Rattus norvegicus gas-5 growth arrest homolog non-translated mRNA sequence
U77829	8930	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			gas-5 growth arrest homolog	U77829mRNA RNU77829 Rattus norvegicus gas-5 growth arrest homolog non-translated mRNA sequence
U77931	8931	AAK219 74	8932	No human homolog found.		No Human Protein Found.			rRNA promoter binding protein	U77931 RNU77931 Rattus norvegicus unknown mRNA

Table 2.

U77933	8933	AAB863 79	8934	AF314175	8935	P42575	8936	90.99	Nedd2/ich-1	U77933 Rattus norvegicus Nedd2/ich-1 mRNA, complete cds /cds=(8,1364) /gb=U77933 /gi=2769705 /ug=Rn.1438 /len=3352
U78090	8937	AAC34 249	8938	AK023061	8939	XP_050 190		90.12	potassium channel regulator 1	U78090 RNU78090 Rattus norvegicus potassium channel regulator 1 mRNA, complete cds
U78517	8940	AAD03 423	8941	XM_00243 7	8942	XP_002 437	8943	95	Rattus norvegicus cAMP-regulated guanine nucleotide exchange factor II	U78517 RNU78517 Rattus norvegicus cAMP-regulated guanine nucleotide exchange factor II (cAMP-GEFII) mRNA, partial cds
U78517	8944	AAD03 423	8945	XM_00243 7	8946	XP_002 437	8947	95	Rattus norvegicus cAMP-regulated guanine nucleotide exchange factor II	U78517 RNU78517 Rattus norvegicus cAMP-regulated guanine nucleotide exchange factor II (cAMP-GEFII) mRNA, partial cds
U78977	8948	AAC05 244	8949	AB014511	8950	O75110	8951	88.63	putative ATPase	U78977 Rattus norvegicus putative ATPase mRNA, partial cds /cds=(0,827) /gb=U78977 /gi=2844136 /ug=Rn.11016 /len=936
U78977	8952	AAC05 244	8953	AB014511	8954	O75110	8955	88.63	putative ATPase	U78977 Rattus norvegicus putative ATPase mRNA, partial cds /cds=(0,827) /gb=U78977 /gi=2844136 /ug=Rn.11016 /len=936

U79417	8959	AAC53 086	8957	BE839943	8958	NP_006 535	8959	92.81	71 kDa component of rsec6/8 secretory complex p71
U79568	8960	AAB504 03	8961	XM_00824 9	8962	XP_008 249	8963	63	Voltage- dependent sodium channel PN1 mRNA, partial cds
U81035	8964	AAB477 53	8965	AB018299	8966	BAA344 76	8967	92	ankyrin binding cell adhesion molecule neurofascin
U81037	8968	AAB477 55	8969	AJ001057	8970	NP_005 001	8971	90.83	Ankyrin binding cell adhesion molecule NrcAM
U81186	8972	AAD00 504	8973	NM_0161 42	8974	NP_057 226	8975	83	Smooth muscle- specific 17 beta- hydroxysteroid dehydrogenas e type 3
U81186	8976	AAD00 504	8977	NM_0161 42	8978	NP_057 226	8979	83	Smooth muscle- specific 17 beta- hydroxysteroid dehydrogenas e type 3

Table 2.

U81186	8980	AAD00 504	8981	NM_0161 42	8982	NP_057 226	8983	83	Smooth muscle- specific 17 beta- hydroxysteroid dehydrogenas e type 3	U81186 RRU81186 Rattus norvegicus smooth muscle-specific 17beta- hydroxysteroid dehydrogenase type 3 mRNA, complete cds
U81186	8984	AAD00 504	8985	NM_0161 42	8986	NP_057 226	8987	83	Smooth muscle- specific 17 beta- hydroxysteroid dehydrogenas e type 3	U81186 RRU81186 Rattus norvegicus smooth muscle-specific 17beta- hydroxysteroid dehydrogenase type 3 mRNA, complete cds
U82623	8988	AAB915 37	8989	AA029488	8990	NP_006 779	8991	91.72	cytochrome	U82623 Rattus norvegicus cytochrome mRNA, complete cds /cds=(119,2200) /gb=U82623 /gi=2697021 /ug=Rn.7107 /len=3602
U82626	8992	AAB963 42	8993	XM_04531 9		XP_045 319		88	Chondroitin sulfate proteoglycan 6	U82626 Rattus norvegicus basement membrane-associated chondroitin proteoglycan Barnacan mRNA, complete cds /cds=(89,3664) /gb=U82626 /gi=1765539 /ug=Rn.11074 /len=4104
U83119	8994	AAB412 24	8995	M80340	8996	AAA516 22	8997	63	Rat genomic clone (ORF2)	U83119 RNU83119 Rattus norvegicus L1 retrotransposon ORF2 mRNA, consensus sequence, partial cds
U83883	8998	AAB414 39	8999	BG542891	9000	XP_011 618	9001	90.89	p105 coactivator	U83883 Rattus norvegicus p105 coactivator mRNA, complete cds /cds=(23,2665) /gb=U83883 /gi=1800308 /ug=Rn.5481 /len=3166
U83883	9002	AAB414 39	9003	BG542891	9004	XP_011 618	9005	90.89	p105 coactivator	U83883 Rattus norvegicus p105 coactivator mRNA, complete cds /cds=(23,2665) /gb=U83883 /gi=1800308 /ug=Rn.5481 /len=3166
U83895	9006	P97694	9007	NM_0047 62	9008	Q15438	9009	98	sec7A	U83895 Rattus norvegicus sec7A mRNA, complete cds /cds=(75,1271) /gb=U83895 /gi=1800314 /ug=Rn.10672 /len=1399
										Cytohesin 1 (SEC7 homolog A) (msec7-1).

Table 2.

U83896	9010	P97695	9011	AA371941	9012	Q89418	9013	94.44	yeast sec7B
U84410	9014	P55213	9015	U26943	9016	P42574	9017	85.2	cysteine protease CPP32
U86635	9018	A29036	9019	BC000088	9020	P21266	9021	87.35	Glutathione S- transferase, mu 5
U86635	9022	A29036	9023	BC000088	9024	P21266	9025	87.35	Glutathione S- transferase, mu 5
U86635	9026	A29036	9027	BC000088	9028	P21266	9029	87.35	Glutathione S- transferase, mu 5
U87306	9030	AAB576 79	9031	AK022859	9032	AAC674 91	9033	88.74	Transmembrane receptor Unc5H2

U83896 Rattus norvegicus sec7B mRNA,  
complete cds /cds=(187,1389) /gb=U83896  
/gi=1800316 /ug=Rn.3732 /len=1561

U84410 RNU84410 Rattus norvegicus  
Interleukin-1beta-converting enzyme-related  
protease CPP32 mRNA, complete cds

U86635 RNU86635 Rattus norvegicus  
glutathione s-transferase M5 mRNA,  
complete cds

U86635 RNU86635 Rattus norvegicus  
glutathione s-transferase M5 mRNA,  
complete cds

U86635 RNU86635 Rattus norvegicus  
glutathione s-transferase M5 mRNA,  
complete cds

U87306 RNU87306 Rattus norvegicus  
transmembrane receptor Unc5H2 mRNA,  
complete cds

Cytoplasmic.

Cytoshesin 2  
(ARF nucleotide-  
binding site  
opener) (ARNO  
protein)  
(CLM2)(SEC7  
homolog B)  
(msec7-2).

Apoptain  
precursor (EC  
3.4.22.-)  
(Cysteine  
protease  
CPP32)  
(Yamaprotein)  
(CPP-32)  
(Caspase-3)  
(CASP-3)  
(SREBP  
cleavage activity  
1)(SCA-1)  
(LICE) (IRP).

Table 2.

U87971	9034	AAB8938 44	9035	NIM_0031 64	9036	Q13190	9037	95	Syntaxin 5a	U87971 RNU87971 Rattus norvegicus syntaxin 5 mRNA, partial cds
U87971	9038	AAB8938 44	9039	NIM_0031 64	9040	Q13190	9041	95	Syntaxin 5a	U87971 RNU87971 Rattus norvegicus syntaxin 5 mRNA, partial cds
U88958	9042	AAB534 15	9043	AF136631	9044	NP_057 672	9045	95.5	Rattus norvegicus neuritin mRNA, complete cds	U88958 Rattus norvegicus neuritin mRNA, complete cds /cds=(188,616) /gb=U88958 /gi=2062677 /ug=Rn.3546 /len=1614
U88958	9046	AAB534 15	9047	AF136631	9048	NP_057 672	9049	95.5	Rattus norvegicus neuritin mRNA, complete cds	U88958 Rattus norvegicus neuritin mRNA, complete cds /cds=(188,616) /gb=U88958 /gi=2062677 /ug=Rn.3546 /len=1614
U88986	9050	T34258		U38545	9051	Q13393	9052	88	Phospholipase D gene 1	U88986 RNU88986 Rattus norvegicus phospholipase D 1 mRNA, partial cds
U89282	9053	AAB516 90	9054	U86136	9055	XP_007 486	9056	87.5	telomerase protein component 1 (TLP1)	U89282 Rattus norvegicus telomerase protein component 1 (TLP1) mRNA, complete cds /cds=(199,8088) /gb=U89282 /gi=1932816 /ug=Rn.5890 /len=8193
U89529	9057	P97849	9058	BG828409	9059	XP_026 964	9060	88.68	Rattus norvegicus fatty acid transport protein mRNA, complete cds	U89529 Rattus norvegicus fatty acid transport protein mRNA, complete cds /cds=(74,2014) /gb=U89529 /gi=1881712 /ug=Rn.1047 /len=3080
U89745	9061	AAB498 95	9062	No human homolog found.		No Human Protein Found.			Rattus norvegicus unknown protein mRNA, partial cds	U89745 Rattus norvegicus unknown protein mRNA, partial cds /cds=(0,293) /gb=U89745 /gi=1895082 /ug=Rn.10720 /len=1114
										Plasma membrane.
										Long-chain fatty acid transport protein precursor (FATP).



Table 2.

U89905	9063	P70473	9064	BC009471	9065	Q9UHK6	9066	85.79	Methylacyl-CoA racemase alpha	U89905 Rattus norvegicus alpha-methylacyl-CoA racemase mRNA, complete cds /cds=(58,1143) /gb=U89905 /gi=2145183 /ug=Rn.2590 /len=1504	Peroxisomal and mitochondrial	Alpha-methylacyl-CoA racemase (EC 5.1.99.4) (2-methylacyl-CoA racemase) (2-arylopropionyl-CoA epimerase).
U89905	9067	P70473	9068	BC009471	9069	Q9UHK6	9070	85.79	Methylacyl-CoA racemase alpha	U89905 Rattus norvegicus alpha-methylacyl-CoA racemase mRNA, complete cds /cds=(58,1143) /gb=U89905 /gi=2145183 /ug=Rn.2590 /len=1504	Peroxisomal and mitochondrial	Alpha-methylacyl-CoA racemase (EC 5.1.99.4) (2-methylacyl-CoA racemase) (2-arylopropionyl-CoA epimerase).
U90312	9071	O55207	9072	AL157424	9073	O15056	9074	94.07	Synaptojanin II	U90312 Rattus norvegicus synaptojanin II mRNA, complete cds /cds=(55,3801) /gb=U90312 /gi=2708492 /ug=Rn.10868 /len=5033	CYTOPLASMIC. INTERACTION OF ISOFORM 2A WITH OMP25 RESULTS IN LOCALIZATION TO THE MITOCHONDRIA.	"Synaptojanin 2 (EC 3.1.3.56) (Synaptic Inositol-1,4,5-trisphosphate 5-phosphatase 2)." 2."

Table 2.

U90610	9075	O08565	9076	L06797	9077	P30991	9078	86.57	CXC chemokine receptor (CXCR4) mRNA	U90610 Rattus norvegicus CXC chemokine receptor (CXCR4) mRNA, complete cds /cds=(0,1049) /gb=U90610 /gi=1906612 /ug=Rn.5288 /len=1050	Integral membrane protein.	C-X-C chemokine receptor type 4 (CXCR4) (CXCR-4) (Stromal cell- derived factor 1 receptor) (SDF- 1 receptor) (Fusin) (Leukocyte- derived seven transmembrane domain receptor) (LESTR).
U90610	9079	O08565	9080	L06787	9081	P30991	9082	86.57	CXC chemokine receptor (CXCR4) mRNA	U90610 Rattus norvegicus CXC chemokine receptor (CXCR4) mRNA, complete cds /cds=(0,1049) /gb=U90610 /gi=1906612 /ug=Rn.5289 /len=1050	Integral membrane protein.	C-X-C chemokine receptor type 4 (CXCR4) (CXCR-4) (Stromal cell- derived factor 1 receptor) (SDF- 1 receptor) (Fusin) (Leukocyte- derived seven transmembrane domain receptor) (LESTR).
U90725	9083	AAD09 246	9084	M64098	9085	Q00341	9086	97	Lipoprotein- binding protein	U90725 RNU90725 Rattus norvegicus caveolae-associated protein mRNA, complete cds		
U90725	9087	AAD09 246	9088	M64098	9089	Q00341	9090	97	Lipoprotein- binding protein	U90725 RNU90725 Rattus norvegicus caveolae-associated protein mRNA, complete cds		

Table 2.

U90829	9091	AAD08 247	9082	U50839	9093	NP_003 886	9094	92.7	APP-binding protein 1	U90829 RNU90829 Rattus norvegicus APP- binding protein 1 mRNA, complete cds
U90829	9095	AAD09 247	9086	U50839	9097	NP_003 886	9098	92.7	APP-binding protein 1	U90829 RNU90829 Rattus norvegicus APP- binding protein 1 mRNA, complete cds
U90829	9099	AAD09 247	9100	U50839	9101	NP_003 886	9102	92.7	APP-binding protein 1	U90829 RNU90829 Rattus norvegicus APP- binding protein 1 mRNA, complete cds
U90829	9103	AAD09 247	9104	U50839	9105	NP_003 886	9106	92.7	APP-binding protein 1	U90829 RNU90829 Rattus norvegicus APP- binding protein 1 mRNA, complete cds
U91561	9107	AAC23 707	9108	NM_0181 29	9109	NP_060 599	9110	89	pyridoxine 5'- phosphate oxidase	U91561 RNU91561 Rattus norvegicus pyridoxine 5 -phosphate oxidase mRNA, complete cds
U91561	9111	AAC23 707	9112	NM_0181 29	9113	NP_060 599	9114	89	pyridoxine 5'- phosphate oxidase	U91561 RNU91561 Rattus norvegicus pyridoxine 5 -phosphate oxidase mRNA, complete cds
U91561	9115	AAC23 707	9116	NM_0181 29	9117	NP_060 599	9118	89	pyridoxine 5'- phosphate oxidase	U91561 RNU91561 Rattus norvegicus pyridoxine 5 -phosphate oxidase mRNA, complete cds
U91561	9119	AAC23 707	9120	NM_0181 29	9121	NP_060 599	9122	89	pyridoxine 5'- phosphate oxidase	U91561 RNU91561 Rattus norvegicus pyridoxine 5 -phosphate oxidase mRNA, complete cds
U92072	9123	AAD04 756	9124	AI025874	9125	XP_045 911	9126	95.05	Tomosyn	U92072 RRU92072 Rattus norvegicus m- tomosyn mRNA, complete cds
U92279	9127	O08773	9128	AF037194	9129	O43566	9130	86.25	Rattus norvegicus regulator of G- protein signalling 14 (RGS14) mRNA, complete cds	U92279 Rattus norvegicus regulator of G- protein signalling 14 (RGS14) mRNA, complete cds /cds=(264,1898) /gb=U92279 /gi=2088555 /ug=Rn.9795 /len=2854

Regulator of G-  
protein signalling  
14 (RGS14).

Table 2.

U92564	9131	AAB586 46	9132	AB018303	9133	BAA344 80	9134	98.21	Rattus norvegicus Olf- 1/EBF associated Zn finger protein Roaz mRNA, alternatively spliced form, complete cds	U92564 Rattus norvegicus Olf-1/EBF associated Zn finger protein Roaz mRNA, alternatively spliced form, complete cds /cds=(411,3971) /gb=U92564 /gi=2149791 /ug=Rn.9881 /len=4636
U92564	9135	AAB586 46	9136	AB018303	9137	BAA344 80	9138	98.21	Rattus norvegicus Olf- 1/EBF associated Zn finger protein Roaz mRNA, alternatively spliced form, complete cds	U92564 Rattus norvegicus Olf-1/EBF associated Zn finger protein Roaz mRNA, alternatively spliced form, complete cds /cds=(411,3971) /gb=U92564 /gi=2149791 /ug=Rn.9881 /len=4636
U92564	9139	AAB586 46	9140	AB018303	9141	BAA344 80	9142	98.21	Rattus norvegicus Olf- 1/EBF associated Zn finger protein Roaz mRNA, alternatively spliced form, complete cds	U92564 Rattus norvegicus Olf-1/EBF associated Zn finger protein Roaz mRNA, alternatively spliced form, complete cds /cds=(411,3971) /gb=U92564 /gi=2149791 /ug=Rn.9881 /len=4636

Table 2.

U92564	9143	AAB586 46	9144	AB018303	9145	BAA344 80	9146	98.21	Rattus norvegicus Olf-1/EBF associated Zn finger protein Roaz mRNA, alternatively spliced form, complete cds	U92564 Rattus norvegicus Olf-1/EBF associated Zn finger protein Roaz mRNA, alternatively spliced form, complete cds /cds=(411,3971) /gb=U92564 /gi=2149791 /ug=Rn.9981 /len=4636
U93197	9147	AAB517 24	9148	AK022522	9149	O60313	9150	93.21	RN protein	U93197 Rattus norvegicus RN protein mRNA, complete cds /cds=(265,1218) /gb=U93197 /gi=1934602 /ug=Rn.9783 /len=1601
U94340	9151	P27008	9152	M18112	9153	P08874	9154	82	poly(ADP- ribose) polymerase	U94340 RNU94340 Rattus norvegicus poly(ADP-ribose) polymerase mRNA, complete cds
U94904	9155	AAC53 493	9156	AF260281	9157	NP_005 750	9158	95.17	Thyroid hormone responsive protein	U94904 Rattus norvegicus thyroid hormone responsive protein mRNA, complete cds /cds=(63,1694) /gb=U94904 /gi=2232008 /ug=Rn.11316 /len=3628
U95178	9159	O88797	9160	AK024985	9161	NP_001 334	9162	92.56	DOC-2 p82 isoform	U95178 Rattus norvegicus DOC-2 p58 isoform mRNA, complete cds /cds=(6,1658) /gb=U95178 /gi=3157894 /ug=Rn.14763 /len=2504

Nuclear.

Poly (ADP-ribose) polymerase-1 (EC 2.4.2.30) (PARP-1) (ADPRT) (NAD(+)-ADP-ribosyltransferase-1) (Poly(ADP-ribose) synthetase-1).

Disabled homolog 2 (DOC-2) (Mitogen-responsive phosphoprotein) (C8).

Table 2.

U95727	9163	O35824	9164	NM_0058 80	9165	O60884	9168	88	DnaJ (Hsp40) homolog, subfamily A, member 2	U95727 RNU95727 Rattus norvegicus DnaJ homolog 2 mRNA, complete cds	Membrane- bound .	DnaJ homolog subfamily A member 2 (RDJ2).
U95727	9167	O35824	9168	NM_0058 80	9169	O60884	9170	88	DnaJ (Hsp40) homolog, subfamily A, member 2	U95727 RNU95727 Rattus norvegicus DnaJ homolog 2 mRNA, complete cds	Membrane- bound .	DnaJ homolog subfamily A member 2 (RDJ2).
U96130	9171	O08730	9172	X79537	9173	P46976	9174	91.24	Glycogenin	U96130 Rattus norvegicus glycogenin mRNA, partial cds /cds=(0,742) /gb=U96130 /gi=2058738 /ug=Rn.3661 /len=1348		Glycogenin-1 (EC 2.4.1.186).
U96130	9175	O08730	9176	X79537	9177	P46976	9178	91.24	Glycogenin	U96130 Rattus norvegicus glycogenin mRNA, partial cds /cds=(0,742) /gb=U96130 /gi=2058738 /ug=Rn.3661 /len=1348		Glycogenin-1 (EC 2.4.1.186).
U98490	9179	AAB687 77	9180	BC001299	9181	NP_065 203	9182	86.27	liver mRNA;	U98490 Rattus norvegicus liver mRNA, complete cds /cds=(95,508) /gb=U98490 /gi=2352085 /ug=Rn.11174 /len=1030		
U98490	9183	AAB687 77	9184	BC001299	9185	NP_065 203	9186	86.27	liver mRNA,	U98490 Rattus norvegicus liver mRNA, complete cds /cds=(95,508) /gb=U98490 /gi=2352085 /ug=Rn.11174 /len=1030		
U97143	9187	AAC53 301	9188	U97145	9189	O00451	9190	92.86	RET ligand 2	U97143 Rattus norvegicus RET ligand 2 (RETLL2) mRNA, complete cds /cds=(120,1514) /gb=U97143 /gi=2282023 /ug=Rn.10775 /len=2787		
V01227	9191	P02551	9192	AF141347	9193	P05209	9194	97	alpha-tubulin	V01227 Rat mRNA encoding alpha-tubulin /cds=(66,1421) /gb=V01227 /gi=55776 /ug=Rn.3389 /len=1617		Tubulin alpha-1 chain.
										AA892333		

Table 2.

V01543	9195	CAA24785	9198	No human homolog found.	No Human Protein Found.		Rat mRNA fragment isolated from the brain and coding for brain specific peptide /cbs=(547,906) /gb=V01543 /gl=56876 /ug=Rn.2865 /len=1136	V01543mRNA Rat mRNA fragment isolated from the brain and coding for brain specific peptide /cbs=(547,906) /gb=V01543 /gl=56876 /ug=Rn.2865 /len=1136		
V01543	9197	NP_077042	9198	No human homolog found.	No Human Protein Found.		Brain specific mRNA B (clone p1a75)	NIM_024128	V01543mRNA Rat mRNA fragment isolated from the brain and coding for brain specific peptide /cbs=(547,906) /gb=V01543 /gl=56876 /ug=Rn.2865 /len=1136	
X01785	9199	P04218	9200	X05323	9201	CAA28943	69	NIM_031518	X01785 Rat thymocyte mRNA for cell surface protein (MRC OX-2) /cbs=(24,860) /gb=X01785 /gl=56700 /ug=Rn.7085 /len=2216	OX-2 membrane glycoprotein precursor (MRC OX-2 antigen).
X02412	9203	Q63582	9204	X03541	9205	P04629	66		X02412 Rat mRNA fragment for striated muscle alpha-tropomyosin /cbs=(0,614) /gb=X02412 /gl=57405 /ug=Rn.1033 /len=890	Tropomyosin 1 alpha chain (Alpha-tropomyosin).
X02601	9207	P03957	9208	J03209	9209	P08254			X02601 Rat mRNA for 53 kD polypeptide induced by growth factors (EGF) and oncogenes (H-ras; src; polyoma middle T) /cbs=(57,1484) /gb=X02601 /gl=57460 /ug=Rn.10435 /len=1771	Stromelysin-1 precursor (EC 3.4.24.17) (Matrix metalloproteinase-3) (MMP-3) (Transln-1) (SL-1) (PTR1 protein).

Table 2.

X02804	9211	P04906	9212	U30897	9213	P09211	9214	85	Glutathione S-transferase, p185	X02804cds RINGSTP Rat mRNA for glutathione S-transferase P subunit	Glutathione S-transferase P (EC 2.5.1.18) (GST 7-7) (Chain 7)(GST class-p1).
X03362	9215	P08494	9216	M11730	9217	P04626	9218	88.47	put. p185 precursor	X03362 Rat mRNA for neu oncogene (p185) encoding an epidermal growth factor receptor-related protein /cds=(16,3788) /gb=X03362 /gi=56745 /ug=Rn.10380 /len=3955	Receptor protein-tyrosine kinase erbB-2 precursor (EC 2.7.1.112)(p185 erbB2) (NEU proto-oncogene) (C-erbB-2) (Epidermal growth factor receptor-related protein).
X03369	9218	P04691	9220	R29239	9221	XP_004389		97.2	beta-tubulin T beta15	X03369 Rat mRNA for beta-tubulin T beta15 /cds=(8,1345) /gb=X03369 /gi=57428 /ug=Rn.11235 /len=1592	Tubulin beta chain (T beta-15).
X04070	9222	P08033	9223	BC002805	9224	P08034	9225	91.25	Gap junction protein (Connexin 32 - Charcot-Marie-Tooth neuropathy, X-linked)	X04070 Rat liver mRNA for gap junction protein /cds=(31,882) /gb=X04070 /gi=56205 /ug=Rn.10444 /len=1485	Gap junction beta-1 protein (Connexin 32) (Cx32) (GAP junction 28 kDa liver protein).
X04979	9228	CAA28650	9227	NM_000041	9228	P02649	9229	72	Apolipoprotein E	X04979 Rat gene for apolipoprotein E /cds=(23,858) /gb=X04979 /gi=55755 /ug=Rn.7082 /len=1059	



Table 2.

X05137	9230	P07174	9231	M14764	9232	P08138	9233	86.75	Fast nerve growth factor receptor (NGFR)	X05137 Rat mRNA for fast nerve growth factor receptor (NGFR) /cds=(113,1390) /gb=X05137 /gi=56755 /ug=Rn.10980 /len=3259	Type I membrane protein.	Tumor necrosis factor receptor superfamily member 16 precursor (Low-affinity nerve growth factor receptor) (NGF receptor) (Gp80-NGFR)(p75 ICD) (Low affinity neurotrophin receptor p75NTR).
X05300	9234	P07153	9235	Y00281	9236	P04843	9237	94	Ribophorin I	X05300 Rat mRNA for ribophorin I /cds=(8,1825) /gb=X05300 /gi=57070 /ug=Rn.4224 /len=2214	Type I membrane protein. Endoplasmic reticulum.	Dolchyl-diphosphooligosaccharide--protein glycosyltransferase67 kDa subunit precursor (EC 2.4.1.119) (Ribophorin I) (RPN-I).
X05472	9238	CAA29032	9239	No human homolog found.	No Human Protein Found.				Rat 2.4 kb repeat DNA right terminal region (genomic clone with 3 reading frames)	X05472cds#1 RNREP24R Rat 2.4 kb repeat DNA right terminal region		

Table 2.

X05472	9240	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	Genomic 2.4 kb repeat DNA right terminal containing two ORFs	X05472cds#1 RNREP24R Rat 2.4 kb repeat DNA right terminal region
X05472	9241	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	Genomic 2.4 kb repeat DNA right terminal containing two ORFs	X05472cds#1 RNREP24R Rat 2.4 kb repeat DNA right terminal region
X05472	9242	CAA29 032	No human homolog found.	No Human Protein Found.	Rat 2.4 kb repeat DNA right terminal region (genomic clone with 3 reading frames)	X05472cds#1 RNREP24R Rat 2.4 kb repeat DNA right terminal region
X05472	9244	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	Genomic 2.4 kb repeat DNA right terminal containing two ORFs	X05472cds#1 RNREP24R Rat 2.4 kb repeat DNA right terminal region
X05472	9245	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	Genomic 2.4 kb repeat DNA right terminal containing two ORFs	X05472cds#2 RNREP24R Rat 2.4 kb repeat DNA right terminal region
X05472	9246	CAA29 032	No human homolog found.	No Human Protein Found.	Rat 2.4 kb repeat DNA right terminal region (genomic clone with 3 reading frames)	X05472cds#2 RNREP24R Rat 2.4 kb repeat DNA right terminal region

Table 2.

X05472	9248	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	Genomic 2.4 kb repeat DNA right terminal containing two ORFs	X05472cds#2 RNREP24R Rat 2.4 kb repeat DNA right terminal region
X05472	9249	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	Genomic 2.4 kb repeat DNA right terminal containing two ORFs	X05472cds#2 RNREP24R Rat 2.4 kb repeat DNA right terminal region
X05472	9250	CAA29 032	9251 No human homolog found.	No Human Protein Found.	Rat 2.4 kb repeat DNA right terminal region (genomic clone with 3 reading frames)	X05472cds#2 RNREP24R Rat 2.4 kb repeat DNA right terminal region
X05472	9252	CAA29 032	9253 No human homolog found.	No Human Protein Found.	Rat 2.4 kb repeat DNA right terminal region (genomic clone with 3 reading frames)	X05472cds#3 RNREP24R Rat 2.4 kb repeat DNA right terminal region
X05472	9254	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	Genomic 2.4 kb repeat DNA right terminal containing two ORFs	X05472cds#3 RNREP24R Rat 2.4 kb repeat DNA right terminal region

Table 2.

X05472	9255	CAA29 032	9256	No human homolog found.	No	Human Protein Found.		Rat 2.4 kb repeat DNA right terminal region (genomic clone with 3 reading frames)	X05472cds#3 RNREP24R Rat 2.4 kb repeat DNA right terminal region		
X05472	9257	No Rat Protein Found.		No human homolog found.	No	Human Protein Found.		Genomic 2.4 kb repeat DNA right terminal containing two ORFs	X05472cds#3 RNREP24R Rat 2.4 kb repeat DNA right terminal region		
X05472	9258	No Rat Protein Found.		No human homolog found.	No	Human Protein Found.		Genomic 2.4 kb repeat DNA right terminal containing two ORFs	X05472cds#3 RNREP24R Rat 2.4 kb repeat DNA right terminal region		
X05834	9259	CAA29 281	9260	X02761	9261	P02751	9262	Fibronectin gene 3'end	X05834 Rat fibronectin gene 3 end /cds=(0,71) /gb=X05834 /gi=56161 /ug=Rn.1604 /len=760		
X06150	9263	P13255	9264	BG820239	9265	Q13608	9266	Glycine methyltransferase	X06150cds RINGMTR Rat mRNA for glycine methyltransferase (EC 2.1.1.20)	Cytoplasmic.	Glycine N- methyltransferase (EC 2.1.1.20) (Folate-binding protein).
X06564	9267	P13596	9268	U63041	9269	P13592	9270	140-kD NCAM polypeptide	X06564 Rat mRNA for 140-kD NCAM polypeptide /cds=(208,2784) /gb=X06564 /gi=56736 /ug=Rn.11283 /len=3170	Type I membrane protein.	"Neural cell adhesion molecule 1, 140 kDa isoform precursor (N- CAM 140)(NCAM- 140)." "

Table 2.

X06655	9271	P07825	9272	AF196779	9273	AAAF058 28	87	major synaptic vesicle protein p38		X06655 Rat mRNA for major synaptic vesicle protein p38 /cds=(0,896) /gb=X06655 /lg=56822 /ug=Rn.11067 /len=2310	Integral membrane protein. Synaptic vesicles.	Synaptophysin (Major synaptic vesicle protein p38).
X06832	9274	CAA28 988	9275	NM_0012 75	9276	P10845	53	Prechromogranin A		X06832cds#2 RNCHROMA Rat mRNA for prechromogranin A		Ras-related protein Rab-3A.
X06889	9276	P05713	9279	M28210	9280	P20336	88.69	Ras-related small GTP binding protein 3A		X06889cds RNRAB3 Rat ras-related mRNA rab3		
X06942	9282	P14058	9283	X04790	9284	P10398	91	A-raf		X06942 Rat A-raf mRNA /cds=(77,1691) /gb=X06942 /lg=55766 /ug=Rn.1714 /len=2288		A-Raf proto- oncogene serine/threonine- protein kinase (EC 2.7.1.-).
X07266	9286	CAA30 252	9287	NM_0189 48	9288	NP_061 821	74	Gene 33/Mig- 6	AI169756	X07266cds RRG33A Rat mRNA for gene 33 polypeptide		
X07320	9290	P13286	9291	NM_0062 13	9292	Q16816	91	Phosphorylas e kinase gamma		X07320 Rat mRNA for phosphorylase kinase gamma-subunit /cds=(76,1242) /gb=X07320 /lg=56928 /ug=Rn.10399 /len=1388		"Phosphorylase B kinase gamma catalytic chain, skeletal muscle isoform (EC 2.7.1.38) (Phosphorylase kinase gamma subunit 1)."
X07636	9294	P08290	9295	M11025	9296	P07307	67	Asialoglycopro tein receptor 2		X07636 Rat mRNA for hepatic lectin /cds=(77,982) /gb=X07636 /lg=57066 /ug=Rn.9834 /len=1290	Type II membrane protein.	Asialoglycoprote in receptor R2/3 (Hepatic lectin 2/3) (RHL-2) (ASGP- R)/(ASGPR).

Table 2.

X07944	9288	CAA30765	9299	NM_002539	9300	P11926	9301	91	ornithine decarboxylase	X07944 exon#1-12 RNODC Rat ornithine decarboxylase gene (EC 4.1.1.17)	
X08056	9302	CAA30845	9303	NM_000156	9304	Q14353	9305	85	Guanidinoacetate methyltransferase	X08056cds RINGMT Rat gene for guanidinoacetate methyltransferase (EC 2.1.1.2)	
X08058	9308	CAA30845	9307	NM_000156	9308	Q14353	9309	85	Guanidinoacetate methyltransferase	X08056cds RINGMT Rat gene for guanidinoacetate methyltransferase (EC 2.1.1.2)	
X12459	9310	P09034	9311	X01630	9312	P00966	9313	96	Argininosuccinate synthetase 1	X12459 Rat mRNA for argininosuccinate synthetase (EC 6.3.4.5) /cds=(14,1252) /gb=X12459 /gi=55768 /ug=Rn.5078 /len=1495	Argininosuccinate synthetase (EC 6.3.4.5) (Citruiline-aspartateligase)
X12535	9314	CAA31053	9315	XM_031588		XP_031568		99	Ras-related protein p23	X12535cds RNRASP23 Rat mRNA for ras-related protein p23	
X12535	9318	CAA31053	9317	XM_031588		XP_031568		99	Ras-related protein p23	X12535cds RNRASP23 Rat mRNA for ras-related protein p23	
X13016	9318	P10252	9319	M37766	9320	P09326	9321	80,34	MRC OX-45 surface antigen	X13016 Rat mRNA for MRC OX-45 surface antigen /cds=(34,756) /gb=X13016 /gi=56804 /ug=Rn.3705 /len=1422	Attached to the membrane by a GPI-anchor. MRC OX-45 surface antigen precursor (BCM1 surface antigen) (BLAST-1)(CD48).

Table 2.

X13044	9322	P10247	9323	NM_004355	9324	P04233	9325	67	CD74 antigen (invariant polypeptide of major histocompatibility class II antigen-associated)	NM_013069	X13044 Rat mRNA for MHC-associated invariant chain gamma /cds=(52,702) /gb=X13044 /gi=56497 /ug=Rn.10475 /len=1150	Type II membrane protein .	"H-2 class II histocompatibility antigen, gamma chain (MHC class II associated invariant chain) (Ia antigen-associated invariant chain)(II) (CD74 antigen)."
X13044	9326	P10247	9327	NM_004355	9328	P04233	9329	67	CD74 antigen (invariant polypeptide of major histocompatibility class II antigen-associated)	NM_013069	X13044 Rat mRNA for MHC-associated invariant chain gamma /cds=(52,702) /gb=X13044 /gi=56497 /ug=Rn.10475 /len=1150	Type II membrane protein .	"H-2 class II histocompatibility antigen, gamma chain (MHC class II associated invariant chain) (Ia antigen-associated invariant chain)(II) (CD74 antigen)."

Table 2.

X13044	9330	P10247	9331	NM_004355	9332	P04233	9333	67	CD74 antigen (invariant polypeptide of major histocompatibility class II antigen-associated)	NM_013069	X13044 Rat mRNA for MHC-associated invariant chain gamma /cds=(52,702) /gb=X13044 /gi=56497 /ug=Rn.10475 /len=1150	Type II membrane protein.	"H-2 class II histocompatibility antigen, gamma chain (MHC class II associated invariant chain) (CD74 antigen)."
X13044	9334	P10247	9335	NM_004355	9336	P04233	9337	67	CD74 antigen (invariant polypeptide of major histocompatibility class II antigen-associated)	NM_013069	X13044 Rat mRNA for MHC-associated invariant chain gamma /cds=(52,702) /gb=X13044 /gi=56497 /ug=Rn.10475 /len=1150	Type II membrane protein.	"H-2 class II histocompatibility antigen, gamma chain (MHC class II associated invariant chain) (CD74 antigen)."
X13411	9338	CAA31777	9339	XM_045572		XP_045572		98	Elk protein		X13411cds RNELK Rat mRNA for elk protein		
X13722	9340	P35952	9341	S70123	9342	AAF24515	9343	88.68	Rat mRNA for LDL-receptor		X13722 Rat mRNA for LDL-receptor /cds=(153,2792) /gb=X13722 /gi=56569 /ug=Rn.10483 /len=3037	Type I membrane protein.	Low-density lipoprotein receptor precursor (LDL receptor).
X13804	9344	CAA32038	9345	XM_037942	9346	XP_037942	9347	87	Heavy neurofilament polypeptide (854 AA)		X13804cds RSNFH Rat mRNA for heavy neurofilament polypeptide NF-H C-terminus		



Table 2.

X13905	9348	CAA32 105	9348	NM_0041 61	9350	P11476	9351	91	rab1B protein		X13905cds RNRAB1B Rat cDNA for ras- related rab1B protein	
X13905	9352	CAA32 105	9353	NM_0041 61	9354	P11476	9355	91	rab1B protein		X13905cds RNRAB1B Rat cDNA for ras- related rab1B protein	
X13933	9356	P02593	9357	A1802286	9358	AAH084 37	9359	97	Calmodulin	E02315	X13933 RNRCM1 R.norvegicus mRNA for calmodulin (pRCM1)	Calmodulin.
X13983	9360	NP_036 620	9361	XM_00692 5	9362	XP_006 925	9363	67	Rat alpha-2- macroglobulin gene exon 1 (and joined CDS)	NM_01248 8	X13983mRNA RNA2MG1 Rat alpha-2- macroglobulin gene exon 1 (and joined CDS)	

Table 2.

X14181	8384	CAA32 385	9365	NM_0009 80	9366	Q02543	9367	Rat mRNA for ribosomal protein L18a	AA798989	X14181cds RRRPL18A Rat mRNA for ribosomal protein L18a
X14181	9368	CAA32 385	9369	NM_0009 80	9370	Q02543	9371	99		X14181cds RRRPL18A Rat mRNA for ribosomal protein L18a
X14181	9372	CAA32 385	9373	NM_0009 80	9374	Q02543	9375		AA798989	X14181cds RRRPL18A Rat mRNA for ribosomal protein L18a
X14181	9376	CAA32 385	9377	NM_0009 80	9378	Q02543	9379	99		X14181cds RRRPL18A Rat mRNA for ribosomal protein L18a
X14210	9380	CAA32 427	9381	NM_0010 07	9382	P12750	9383	100		X14210cds RNRPS4 Rat mRNA for ribosomal protein S4
X14210	9384	CAA32 427	9385	NM_0010 07	9386	P12750	9387	100		X14210cds RNRPS4 Rat mRNA for ribosomal protein S4
X14210	9388	CAA32 427	9389	NM_0010 07	9390	P12750	9391	100		X14210cds RNRPS4 Rat mRNA for ribosomal protein S4
X14210	9392	CAA32 427	9393	NM_0010 07	9394	P12750	9395	100		X14210cds RNRPS4 Rat mRNA for ribosomal protein S4
X14254	9396	CAA32 468	9397	K01144	9398	P04233	9399	66		X14254cds RNIMHC21 Rat mRNA for MHC class II-associated invariant chain
X14254	9400	CAA32 468	9401	K01144	9402	P04233	9403	66		X14254cds RNIMHC21 Rat mRNA for MHC class II-associated invariant chain
X14323	9404	CAA32 503	9405	NM_0041 07	9406	P55899	9407	59		X14323cds RNIGGR51 Rat mRNA for IgG receptor FcRn large subunit p51
X14323	9408	CAA32 503	9409	NM_0041 07	9410	P55899	9411	59		X14323cds RNIGGR51 Rat mRNA for IgG receptor FcRn large subunit p51
X14323	9412	CAA32 503	9413	NM_0041 07	9414	P55899	9415	59		X14323cds RNIGGR51 Rat mRNA for IgG receptor FcRn large subunit p51

Table 2.

X14323	8416	CAA32 503	9417	NM_0041 07	9418	P56899	9419	59	IgG receptor FcRn large subunit p51		X14323cds RNIGGR51 Rat mRNA for IgG receptor FcRn large subunit p51				
X14671	9420	CAA32 801	9421	XM_03045 6		XP_030 456		87	liver mRNA for ribosomal protein L26	AA893493	X14671cds RRRPL26 Rat liver mRNA for ribosomal protein L26				
X14848	9422	No human homolo g found.		No Human Protein Found.					Rattus norvegicus mitochondrial genome		X14848cds#12 MIRNXX Rattus norvegicus mitochondrial genome				
X14848	9423	No human homolo g found.		No Human Protein Found.					Rattus norvegicus mitochondrial genome	AA945152	X14848cds#12 MIRNXX Rattus norvegicus mitochondrial genome				
X14848	9424	No human homolo g found.		No Human Protein Found.					Rattus norvegicus mitochondrial genome		X14848cds#2 MIRNXX Rattus norvegicus mitochondrial genome				
X14848	9425	No human homolo g found.		No Human Protein Found.					Rattus norvegicus mitochondrial genome	AA945152	X14848cds#2 MIRNXX Rattus norvegicus mitochondrial genome				
X15468	9426	CAA33 495	9427	NM_0008 14	9428	P28472	9429	94	GABA(A) receptor beta- 3 preprotein		X15468cds RSGARB3 Rat mRNA for GABA(A) receptor beta-3 subunit				
X15512	9430	P19939	9431	NM_0016 45	9432	P02654	9433	66	Apolipoprotein CI		X15512 Rat mRNA for apolipoprotein CI /cds=(83,348) /gp=X15512 /gf=55676 /lg=Rn.8887 /len=435		Extracellular.		Apolipoprotein C-I precursor (Apo-CI).
X15705	9434	CAA33 735	9435	U58725	9436	P54852	9437	90	HST protein (AA 1-633)		X15705cds RNHST70A Rat testis-specific heat shock protein-related gene hst70				
X16002	9438	CAA34 133	9439	M55514	9440	P22459	9441	73	Putative potassium channel subunit protein (RCK4)		X16002cds RNRCCK4 Rat mRNA for putative potassium channel subunit protein (RCK4)				

Table 2.

X16038	9442	NP_037181	9443	XM_001826	9444	XP_001826	9445	91	Alkaline phosphatase 2A	NM_013058	X16038 exon RNALPH13 R. norvegicus gene encoding alkaline phosphatase, exon 13	
X16043	9448	CAA34166	9447	NM_002715	9448	P05323	9449	99	phosphatase 2A		X16043 cds RNP2A2 Rat mRNA for phosphatase 2A catalytic subunit isotype alpha (EC 3.1.3.-)	Beta crystallin B2 (BP).
X16072	9450	P25775	9451	A1700368	9452	JC2009		89.72	R. norvegicus CRYBB2 gene (crystallin, beta B2)		X16072 Rattus norvegicus mRNA for beta B2 crystallin /cds=(26,843) /gb=X16072 /gi=3127917 /ug=Rn.10350 /len=735	
X16145	9453	P17164	9454	BC017338	9455	P04066	9456	84.76	Rat mRNA for liver a-L-Fucosidase		X16145 Rat mRNA for liver a-L-Fucosidase (EC 3.2.1.51) /cds=(11,1399) /gb=X16145 /gi=56650 /ug=Rn.3469 /len=1478	Tissue alpha-L-fucosidase precursor (EC 3.2.1.51) (Alpha-L-fucosidase) (Alpha-L-fucoside fucosylase).
X16262	9457	Q8JLT0	9458	BC000280	9459	P35749	9460	93.85	Myosin heavy chain 11		X16262 Rat mRNA for alternatively spliced smooth muscle myosin heavy chain (clone RAMHC21) /cds=(0,1865) /gb=X16262 /gi=56650 /ug=Rn.10487 /len=2348	"Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B)."

Table 2.

X16262	9481	Q9JLT0	9462	BC000280	9483	NP_002465	9484	93.85	Myosin heavy chain 21	X16262 Rat mRNA for alternatively spliced smooth muscle myosin heavy chain (clone RAMIHC21) /cds=(0,1865) /gb=X16262 /gi=56650 /ug=Rn.10487 /len=2348	"Myosin heavy chain, nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMIMHC-B)." "
X16273	9485	CAA34349	9468	NM_000295	9487	P01009	9468	66	serine proteinase inhibitor-like protein	X16273cds RNSPILP Rat mRNA for serine proteinase inhibitor-like protein, partial	
X16273	9489	CAA34349	9470	NM_000295	9471	P01009	9472	66	serine proteinase inhibitor-like protein	X16273cds RNSPILP Rat mRNA for serine proteinase inhibitor-like protein, partial	
X16273	9473	CAA34349	9474	NM_000295	9475	P01009	9476	66	serine proteinase inhibitor-like protein	X16273cds RNSPILP Rat mRNA for serine proteinase inhibitor-like protein, partial	
X16273	9477	CAA34349	9478	NM_000295	9479	P01009	9480	66	serine proteinase inhibitor-like protein	X16273cds RNSPILP Rat mRNA for serine proteinase inhibitor-like protein, partial	
X16476	9481	CAA34487	9482	XM_030504		XP_030504		88	Potassium channel protein	X16476cds RSDRK1PC Rat drk1 gene mRNA for potassium channel protein	
X16481	9483	P04550	9484	No human homolog found.		No Human Protein Found.			Zinc(2+) binding protein	X16481 Rat mRNA for zinc(2+) binding protein /cds=(115,423) /gb=X16481 /gi=55538 /ug=Rn.3609 /len=912	Parathymosin (Zinc-binding 11.5 kDa protein).
X16933	9485	CAA34808	9486	M94630	9487	Q14103	9488	81	Rat mRNA for hnRNP C protein, partial	X16933cds RSHNRNPC Rat mRNA for hnRNP C protein, partial	

Table 2.

X16933	8489	CAA34 808	9490	M94630	9491	Q14103	9492	81	Rat mRNA for hnRNP C protein, partial		X16933cds RSHNRP C protein, partial
X17163	9493	CAA35 084	9494	J04111	9495	AAA591 97	9496	78	c-Jun proto oncogene (JUN)	A1175959	X17163cds RSJUNAP1 Rat c-jun oncogene mRNA for transcription factor AP-1
X17163	9497	CAA35 041	9498	XM_00147 2	9499	XP_001 472	9500	78	c-Jun oncogene mRNA for transcription factor AP-1	AA945867	X17163cds RSJUNAP1 Rat c-jun oncogene mRNA for transcription factor AP-1
X51529	9501	CAA35 909	9502	NM_0003 00	9503	P14555	9504	71	platelet phospholipase A2		X51529 Rat gene for platelet phospholipase A2 /cds=(549,989) /gb=X51529 /gi=56930 /ug=Rn.11348 /len=1262
X51615	9505	AAD50 911	9506	XM_00716 9		XP_007 169			connexin protein Cx26	AF170284	X51615 RRCX26 R.rattus RNA for connexin protein Cx26
X51708	9507	CAA38 002	9508	XM_01240 7		XP_012 407		92	Ribosomal protein L9		X51708cds RRRPL9 Rat mRNA for ribosomal protein L9
X51708	9509	CAA38 002	9510	XM_01240 7		XP_012 407		92	Ribosomal protein L9		X51708cds RRRPL9 Rat mRNA for ribosomal protein L9
X52140	9511	P18614	9512	NM_0122 11	9513	Q8UKX5	9514	37	Integrin alpha- 1.		X52140 Rat mRNA for Integrin alpha-1 /cds=(419,3981) /gb=X52140 /gi=66493 /ug=Rn.11491 /len=3974
X52711	9515	P18588	9516	NM_0024 62	9517	P20591	9518	67	Mx1		X52711 Rat mRNA for Mx1 protein /cds=(114,2072) /gb=X52711 /gi=56720 /ug=Rn.10373 /len=3114
X52733	9519	CAA36 947	9520	NM_0009 90	9521	P46776	9522	85	ribosomal protein L27a	A1177054	X52733cds RRRPL27A Rat mRNA for ribosomal protein L27a
X52817	9523	CAA37 001	9524	XM_05086 5		XP_050 865		82	C1-13 gene product (AA 1- 267)		X52817cds RSC113 Rat mRNA for C1-13 gene product

Type I  
membrane  
protein.

Integrin alpha-1  
precursor  
(Laminin and  
collagen  
receptor) (VLA-  
1)(CD48a).

Nuclear.

Interferon-  
induced GTP-  
binding protein  
Mx1.

Table 2.

X52840	9525	P18666	9526	X54304	9527	P19105	9528	97	Myosin regulatory light chain	X52840 Rat mRNA for smooth muscle myosin RLC-B /cds=(17,535) /gb=X52840 /gi=56702 /ug=Rn.2867 /len=1113	"Myosin regulatory light chain 2-B, smooth muscle isoform (MyosinRLC- B)."
X53052	9529	CAA37 219	9530	NM_0120 64	9531	NP_036 196	9532	85	Rat mRNA for main intrinsic protein	X53052cds RRMIP Rat mRNA for main intrinsic protein	
X53054	9533	P18211	9534	XM_05342 1		XP_053 421		67	Rat mRNA for RT1.D beta chain	X53054 Rat mRNA for RT1.D beta chain /cds=(15,809) /gb=X53054 /gi=57169 /ug=Rn.11299 /len=1197	"RT1 class II histocompatibilit y antigen, D-1 beta chain precursor."
X53054	9535	P18211	9536	XM_05342 1		XP_053 421		67	Rat mRNA for RT1.D beta chain	X53054 Rat mRNA for RT1.D beta chain /cds=(15,809) /gb=X53054 /gi=57169 /ug=Rn.11299 /len=1197	"RT1 class II histocompatibilit y antigen, D-1 beta chain precursor."
X53054	9537	P18211	9538	XM_05342 1		XP_053 421		67	Rat mRNA for RT1.D beta chain	X53054 Rat mRNA for RT1.D beta chain /cds=(15,809) /gb=X53054 /gi=57169 /ug=Rn.11299 /len=1197	"RT1 class II histocompatibilit y antigen, D-1 beta chain precursor."
X53054	9539	P18211	9540	XM_05342 1		XP_053 421		67	Rat mRNA for RT1.D beta chain	X53054 Rat mRNA for RT1.D beta chain /cds=(15,809) /gb=X53054 /gi=57169 /ug=Rn.11299 /len=1197	"RT1 class II histocompatibilit y antigen, D-1 beta chain precursor."
X53231	9541	P18889	9542	No human homolog found.		No Human Protein Found.		NM_02268 8	Preoptic regulatory factor-1	X53231 Rat mRNA for preoptic regulatory factor-1 (PORF-1) /cds=(26,139) /gb=X53231 /gi=56949 /ug=Rn.19843 /len=689	Putative preoptic regulatory factor- 1 precursor (PORF-1).
									Secreted .		

Table 2.

X53565	9543	P19814	9544	BC008481	9545	O43493	9546	82.29	trans-Golgi network integral membrane protein TGN38	X53565 Rat mRNA for trans-Golgi network integral membrane protein TGN38 /cds=(1,1084) /gb=X53565 /gi=57346 /ug=Rn.11349 /len=2750	TRANS- GOLGI NETWORK.	Trans-golgi network integral membrane protein TGN38 precursor.
X53581	9547	No human homolo g found.	No Human Protein Found.	No Human Protein Found.					R.norvegicus long interspersed repetitive DNA containing 7 ORF's	X53581cds#3 RNLINED R.norvegicus long interspersed repetitive DNA containing 7 ORF's		
X53581	9548	No human homolo g found.	No Human Protein Found.	No Human Protein Found.					R.norvegicus long interspersed repetitive DNA containing 7 ORF's	X53581cds#3 RNLINED R.norvegicus long interspersed repetitive DNA containing 7 ORF's		
X53581	9549	No human homolo g found.	No Human Protein Found.	No Human Protein Found.					R.norvegicus long interspersed repetitive DNA containing 7 ORF's	X53581cds#5 RNLINED R.norvegicus long interspersed repetitive DNA containing 7 ORF's		
X53581	9550	No human homolo g found.	No Human Protein Found.	No Human Protein Found.					R.norvegicus long interspersed repetitive DNA containing 7 ORF's	X53581cds#5 RNLINED R.norvegicus long interspersed repetitive DNA containing 7 ORF's		



Table 2.

X53773	9551	P18484	9552	AC006942	9553	AAD155 64	9554	73	alpha-c large chain (AA 1- 938)	X53773 Rat mRNA for alpha-c large chain of the protein complex AP-2 associated with clathrin /cds=(36,2852) /gb=X53773 /gi=55728 /ug=Rn.5073 /len=3109	COMPONENT OF THE COAT SURROUNDING THE CYTOPLASMIC FACE OF COATED VESICLES IN THE PLASMA MEMBRANE.	Adaptor-related protein complex 2 alpha 2 subunit (Alpha- adaptin C)/Clathrin assembly protein complex 2 alpha-C large chain (100 kDa coated vesicle protein C) (Plasma membrane adaptor HA2/AP2 adaptin)
X53944	9555	P19020	9556	NM_0336 63	9557	P35462	9558	89.41	Dopamine receptor 3	X53944 Rat mRNA for dopamine D3 receptor /cds=(81,1421) /gb=X53944 /gi=56060 /ug=Rn.10355 /len=1481	Integral membrane protein.	D(3) dopamine receptor.
X54098	9559	P18424	9560	M12625	9561	P04180	9562	86.58	Lecithin- cholesterol acyltransferase	X54098 Rat mRNA for lecithin-cholesterol acyltransferase (EC 2.3.1.43) (LCAT) /cds=(21,1343) /gb=X54098 /gi=56563 /ug=Rn.10481 /len=1362		Phosphatidylcho- line-sterol acyltransferase precursor (EC 2.3.1.43)(Lecithi n-cholesterol acyltransferase) (Phospholipid- cholesterolacyltr ansferase).
X54249	9563	CAA38 150	9564	XM_04708 4		XP_047 084		75	Zinc finger protein AT- BP1	X54249mRNA RRATBP1 Rat mRNA for a zinc finger protein AT-BP1, partial cds		
X54249	9565	CAA38 150	9566	XM_04708 4		XP_047 084		75	Zinc finger protein AT- BP1	X54249mRNA RRATBP1 Rat mRNA for a zinc finger protein AT-BP1, partial cds		

Table 2.

X54510	9567	P21571	9568	BC002872	9569	P18859	9570	92.28	R.norvegicus mRNA for coupling factor 6 of mitochondrial ATP synthase complex	X54510 R.norvegicus mRNA for coupling factor 6 of mitochondrial ATP synthase complex /cds=(161,487) /gb=X54510 /gi=14214 /ug=Rn.5780 /len=573	"ATP synthase coupling factor 6, mitochondrial precursor (EC 3.6.3.14)(F6)."
X54510	9571	P21571	9572	BC002872	9573	P18859	9574	92.28	R.norvegicus mRNA for coupling factor 6 of mitochondrial ATP synthase complex	X54510 R.norvegicus mRNA for coupling factor 6 of mitochondrial ATP synthase complex /cds=(161,487) /gb=X54510 /gi=14214 /ug=Rn.5780 /len=573	"ATP synthase coupling factor 6, mitochondrial precursor (EC 3.6.3.14)(F6)."
X54510	9575	P21571	9576	BC002872	9577	P18859	9578	92.28	R.norvegicus mRNA for coupling factor 6 of mitochondrial ATP synthase complex	X54510 R.norvegicus mRNA for coupling factor 6 of mitochondrial ATP synthase complex /cds=(161,487) /gb=X54510 /gi=14214 /ug=Rn.5780 /len=573	"ATP synthase coupling factor 6, mitochondrial precursor (EC 3.6.3.14)(F6)."
X54510	9578	P21571	9580	BC002872	9581	P18859	9582	92.28	R.norvegicus mRNA for coupling factor 6 of mitochondrial ATP synthase complex	X54510 R.norvegicus mRNA for coupling factor 6 of mitochondrial ATP synthase complex /cds=(161,487) /gb=X54510 /gi=14214 /ug=Rn.5780 /len=573	"ATP synthase coupling factor 6, mitochondrial precursor (EC 3.6.3.14)(F6)."
X54617	9583	CAA38 437	9584	XM_04167 7		XP_041 677		100	RLC-A gene for myosin regulatory light chain	X54617mRNA RNRLCAE4 Rat RLC-A gene for myosin regulatory light chain, exon 4	

Table 2.

X54793	9585	P18226	9586	BF083615	9587	P10809	9588	95	Heat shock protein 60 (liver)	X54793 Rat liver mRNA for heat shock protein (hsp60) /cds=(6,1727) /gb=X54793 /gi=56382 /ug=Rn.221 /len=2175	Mitochondrial mtrix.	60 kDa heat shock protein, mitochondrial precursor (Hsp60) (60 kDachaperonin) (CPN60) (Heat shock protein 60) (HSP-60) (Mitochondrial matrix protein P1) (HSP-65)."
X55286	9589	P51639	9590	M11058	9591	P04035	9592	92	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	X55286 R.norvegicus mRNA for HMG-CoA reductase /cds=(0,734) /gb=X55286 /gi=286924 /ug=Rn.10469 /len=1159	Integral membrane protein. Endoplasmic reticulum.	3-hydroxy-3-methylglutaryl-coenzyme A reductase (EC 1.1.1.34) (HMG-CoA reductase).
X55286	9593	P51639	9594	M11058	9595	P04035	9596	92	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	X55286 R.norvegicus mRNA for HMG-CoA reductase /cds=(0,734) /gb=X55286 /gi=286924 /ug=Rn.10469 /len=1159	Integral membrane protein. Endoplasmic reticulum.	3-hydroxy-3-methylglutaryl-coenzyme A reductase (EC 1.1.1.34) (HMG-CoA reductase).
X55286	9597	P51639	9598	M11058	9599	P04035	9600	92	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	X55286 R.norvegicus mRNA for HMG-CoA reductase /cds=(0,734) /gb=X55286 /gi=286924 /ug=Rn.10469 /len=1159	Integral membrane protein. Endoplasmic reticulum.	3-hydroxy-3-methylglutaryl-coenzyme A reductase (EC 1.1.1.34) (HMG-CoA reductase).

Table 2.

X55286	9601	P51639	9602	M11058	9603	P04035	9604	92	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	X55286 R.norvegicus mRNA for HMG-CoA reductase /cds=(0,734) /gb=X55286 /gi=286924 /ug=Rn.10469 /len=1159	Integral membrane protein. Endoplasmic reticulum.	3-hydroxy-3-methylglutaryl-coenzyme A reductase (EC 1.1.1.34) (HMG-CoA reductase).
X55446	9605	P24470	9606	AW450584	9607	NP_000760	9608	88.03	Rat mRNA for cytochrome P-450 (CYP2C23)	X55446mRNA Rat mRNA for cytochrome P-450 (CYP2C23) /cds=UNKNOWN /gb=X55446 /gi=56824 /ug=Rn.2184 /len=2086	Membrane-bound. Endoplasmic reticulum.	Cytochrome P450 2C23 (EC 1.14.14.1) (CYP11C23) (Arachidonic aciddepoxygenase).
X55660	9609	P23377	9610	X17094	9611	P08958	9612	95.49	pcRF104 mRNA for furin	X55660 Rat pcRF104 mRNA for furin /cds=(443,2824) /gb=X55660 /gi=56171 /ug=Rn.3220 /len=4259	SEEMS TO BE LOCALIZED INTRACELLULARLY TO THE TRANS GOLGI NETWORK. PROPEPTIDASE CLEAVAGE IS A PREREQUISITE FOR EXIT OF FURIN MOLECULES OUT OF THE ENDOPLASMIC RETICULUM (ER). SECOND CLEAVAGE IN THE REGION	Furin precursor (EC 3.4.21.75) (Paired basic amino acid residuecleaving enzyme) (PACE) (Dibasic processing enzyme).

Table 2.

X55660	9613	P23377	9614	X17094	9615	P09958	9616	9549	furin prepeptide	X55660 Rat pcRF104 mRNA for furin /cds=(443,2824) /gb=X55660 /gi=56171 /ug=Rn.3220 /len=4259	SEEMS TO BE LOCALIZED INTRACELL ULARLY TO THE TRANS GOLGI NETWORK. PROPEPTID E CLEAVAGE IS A PREREQUIS ITE FOR EXIT OF FURIN MOLECULE S OUT OF THE ENDOPLAS MIC RETICULUM (ER). SECOND CLEAVAGE IN THE PROPEP Mitochondrial inner membrane.	Furin precursor (EC 3.4.21.75) (Paired basic amino acid residuecleaving enzyme) (PACE) (Dibasic processing enzyme).
X56133	9617	P15999	9618	NM_0040 46	9619	P25705	9620	97	F1-ATPase alpha subunit	X56133 Rat mRNA for F1-ATPase alpha subunit (EC 3.6.1.34) /cds=(0,707) /gb=X56133 /gi=57028 /ug=Rn.7138 /len=1066	PROPEP Mitochondrial inner membrane.	"ATP synthase alpha chain, mitochondrial precursor (EC 3.6.3.14)(Fragm ent)."
X56228	9621	P24329	9622	XM_03866 1		XP_038 661		90	Rhodanese	X56228 Rat mRNA for rhodanese /cds=(0,887) /gb=X56228 /gi=57068 /ug=Rn.6360 /len=989	Mitochondrial matrix.	Thiosulfate sulfurtransferas e (EC 2.8.1.1) (Rhodanese) (Fragment).

Table 2.

X56228	9823	P24329	9824	XM_038661	XP_038661	90	Rhodanese	X56228 Rat mRNA for rhodanese /cds=(0,887) /gb=X56228 /gi=57068 /lug=Rn.6360 /len=989	Mitochondrial matrix	Thiosulfate sulfurtransferase (EC 2.8.1.1) (Rhodanese) (Fragment).
X56306	9825	P08767	9826	X54469	9627	9628	93.07	Tachykinin (substance P, neurokinin A, neuropeptide K, neuropeptide gamma)	X56306 Rat mRNA of delta-preprotachykinin - a splicing variant of substance P precursor /cds=(4,297) /gb=X56306 /gi=56067 /lug=Rn.1920 /len=342	Protachykinin 1 precursor (PPT) [Contains: Substance P; Neurokinin A(NKA) (Substance K) (Neurokinin L); Neuropeptide K (NPK); Neuropeptidega mma; C- terminal flanking peptide].
X56551	9829	Q02195	9830	A36301	P21781	9831	90	Fibroblast growth factor 7	X56551 cds RNMRNAKGF R.norvegicus mRNA for keratinocyte growth factor	Keratinocyte growth factor precursor (KGF) (Fibroblast growth factor-7) (FGF-7) (HBGF- 7).
X56596	9632	P28826	9633	BM727355	9634	9635	96.99	Rat mRNA for MHC class II antigen RT1.B- 1 beta-chain	X56596 Rat mRNA for MHC class II antigen RT1.B-1 beta-chain /cds=(7,788) /gb=X56596 /gi=57152 /lug=Rn.20089 /len=1374	"RT1 class II histocompatibility antigen, B-1 beta chain precursor(RT1. B-beta(1))."
X56729	9636	CAA40053	9637	D16217	9638	9639	56	calpastatin/CA NP inhibitor	X56729mRNA RSCALPST Rat mRNA for calpastatin	
X56729	9640	CAA40053	9641	D16217	9642	9643	56	calpastatin/CA NP inhibitor	X56729mRNA RSCALPST Rat mRNA for calpastatin	

Table 2.

X57405	9844	CAA40 667	9845	XM_03467 1	9846	XP_034 671	9847	51	Homologue of Drosophila notch protein	X57405 RRNOTCH R.rattus mRNA homologue of Drosophila notch protein			
X57405	9848	CAA40 667	9849	XM_03467 1	9850	XP_034 671	9851	51	Homologue of Drosophila notch protein	X57405 RRNOTCH R.rattus mRNA homologue of Drosophila notch protein			
X57405	9852	CAA40 667	9853	XM_03467 1	9854	XP_034 671	9855	51	Homologue of Drosophila notch protein	X57405 RRNOTCH R.rattus mRNA homologue of Drosophila notch protein			
X57405	9856	CAA40 667	9857	XM_03467 1	9858	XP_034 671	9859	51	Homologue of Drosophila notch protein	X57405 RRNOTCH R.rattus mRNA homologue of Drosophila notch protein			
X57523	9860	P36370	9861	M84748	9862	Q03519	9863	89.32	R.norvegicus mtp1 mRNA	X57523 R.norvegicus mtp1 mRNA /cds=(0,2224) /gb=X57523 /gi=56716 /lug=Rn.10763 /len=2664	Integral membrane protein.	Antigen peptide transporter 1 (APT1).	
X57523	9864	P36370	9865	M84748	9866	Q03519	9867	89.32	mtp1	X57523 R.norvegicus mtp1 mRNA /cds=(0,2224) /gb=X57523 /gi=56716 /lug=Rn.10763 /len=2664	Integral membrane protein.	Antigen peptide transporter 1 (APT1).	
X58200	9868	CAA41 177	9869	NIM_0009 78	9870	P23131	9871	94	ribosomal protein L23	X58200mRNA RRRPL23 Rat mRNA for ribosomal protein L23			
X58200	9872	CAA41 177	9873	NIM_0009 78	9874	P23131	9875	94	ribosomal protein L23	X58200mRNA RRRPL23 Rat mRNA for ribosomal protein L23			
X58294	9876	P27139	9877	J03037	9878	P00818	9879	85.71	Carbonic anhydrase II	X58294 R.norvegicus mRNA for carbonic anhydrase II /cds=(8,790) /gb=X58294 /gi=55837 /lug=Rn.3525 /len=1459	Cytoplasmic.	Carbonic anhydrase II (EC 4.2.1.1) (Carbonate dehydratase II) (CA-II).	
X58631	9880	CAA41 484	9881	NIM_0043 83	9882	P41240	9883	98	protein- tyrosine kinase	X58631 cds RPTYKI Rat mRNA for protein- tyrosine kinase			

Table 2.

X58830	9884	Q04808	9885	A1367148	9886	P22004	9887	92.19	Bone morphogenetic protein 6	X58830 Rat vgr mRNA (cds=0.623) /gb=X58830 /gi=57475 /ug=Rn.10436 /len=1241	Bone morphogenetic protein 6 precursor (BMP-6) (VG-1-related protein)(VGR-1) (Fragment).
X58865	9888	P30835	9889	D25328	9890	Q01813	9891	91.38	6-phosphofructokinase	X58865mRNA Rat PFK-L mRNA for liver phosphofructokinase /cds=UNKNOWN /gb=X58865 /gi=56886 /ug=Rn.10981 /len=2740	6-phosphofructokinase, liver type (EC 2.7.1.11) (Phosphofructokinase1) (Phosphohexokinase) (Phosphofructo-1-kinase isozyme B) (PFK-B)."
X59132	9692	P23811	9693	A1220044	9694	P47872	9695	93.85	Secretin receptor	X59132 R.norvegicus mRNA for secretin receptor /cds=(212,1561) /gb=X59132 /gi=57228 /ug=Rn.10977 /len=1796	Secretin receptor precursor (SCT-R).
X59677	9696	CAA42 203	9697	NM_0039 84	9698	Q13183	9699	88	Rattus sp. cDNA for M2 gene (clone M2-788)	X59677mRNA RSM2798 Rattus sp. cDNA for M2 gene (clone M2-788)	Integral membrane protein.
X59737	9700	CAA42 415	9701	NM_0209 90	9702	NP_066 270	9703	89	Ubiquitous mitochondrial creatine kinase	X59737mRNA RRCKUM Rat mRNA for ubiquitous mitochondrial creatine kinase	
X59737	9704	CAA42 415	9705	NM_0209 90	9706	NP_066 270	9707	89	Ubiquitous mitochondrial creatine kinase	X59737mRNA RRCKUM Rat mRNA for ubiquitous mitochondrial creatine kinase	
X59737	9708	CAA42 415	9709	NM_0209 90	9710	NP_066 270	9711	89	Ubiquitous mitochondrial creatine kinase	X59737mRNA RRCKUM Rat mRNA for ubiquitous mitochondrial creatine kinase	



Table 2.

X59737	9712	CAA42 415	9713	NM_0208 90	9714	NP_066 270	9715	89	Ubiquitous mitochondrial creatine kinase	X59737 mRNA RRCKUM Rat mRNA for ubiquitous mitochondrial creatine kinase		
X59859	9718	Q01129	9717	NM_0019 20	9718	P07585	9719	74	DCN mRNA for decorin	X59859 R.norvegicus DCN mRNA for decorin /cds=(0,1034) /gb=X59859 /g =56056 /ug=Rn.3818 /len=1534	Extracellular matrix.	Decorin precursor (Bone proteoglycan II) (PG-S2) (PG40) (Dermatansulfat e proteoglycan- II) (DSPG).
X59859	9720	Q01129	9721	NM_0019 20	9722	P07585	9723	74	Decorin	X59859 R.norvegicus DCN mRNA for decorin /cds=(0,1034) /gb=X59859 /g =56056 /ug=Rn.3818 /len=1534	Extracellular matrix.	Decorin precursor (Bone proteoglycan II) (PG-S2) (PG40) (Dermatansulfat e proteoglycan- II) (DSPG).
X59859	9724	Q01129	9725	NM_0019 20	9726	P07585	9727	74	decorin	X59859 R.norvegicus DCN mRNA for decorin /cds=(0,1034) /gb=X59859 /g =56056 /ug=Rn.3818 /len=1534	Extracellular matrix.	Decorin precursor (Bone proteoglycan II) (PG-S2) (PG40) (Dermatansulfat e proteoglycan- II) (DSPG).

AI639233

Table 2.

X59859	9728	Q01129	9729	NM_001920	9730	P07585	9731	74	DCN mRNA for decorin		X59859 R.norvegicus DCN mRNA for decorin /cds=(0,1034) /gb=X59859 /gi=56056 /ug=Rn.3819 /len=1534	Extracellular matrix.	Decorin precursor (Bone proteoglycan II) (PG-S2) (PG40) (Dermatansulfate proteoglycan-II) (DSPG).
X59859	9732	Q01129	9733	NM_001920	9734	P07585	9735	74	Decorin		X59859 R.norvegicus DCN mRNA for decorin /cds=(0,1034) /gb=X59859 /gi=56056 /ug=Rn.3819 /len=1534	Extracellular matrix.	Decorin precursor (Bone proteoglycan II) (PG-S2) (PG40) (Dermatansulfate proteoglycan-II) (DSPG).
X59859	9736	Q01129	9737	NM_001920	9738	P07585	9739	74	decorin	AI639233	X59859 R.norvegicus DCN mRNA for decorin /cds=(0,1034) /gb=X59859 /gi=56056 /ug=Rn.3819 /len=1534	Extracellular matrix.	Decorin precursor (Bone proteoglycan II) (PG-S2) (PG40) (Dermatansulfate proteoglycan-II) (DSPG).
X59884	9740	CAA42524	9741	No Human		No Human Protein Found.			ASM15 gene		X59884 mRNA RRASM15 Rat ASM15 gene		
X59884	9742	CAA42524	9743	No Human		No Human Protein Found.			ASM15 gene		X59884 mRNA RRASM15 Rat ASM15 gene		

Table 2.

X59864	9744	CAA42 524	9745	No Human		No Human Protein Found.		ASM15 gene	X59864mRNA RRASM15 Rat ASM15 gene	
X59864	9745	CAA42 524	9747	No Human		No Human Protein Found.		ASM15 gene	X59864mRNA RRASM15 Rat ASM15 gene	
X59861	9748	CAA42 585	9749	NM_0035 24	9750	NP_003 515	9751	H2A and H2B histones	X59861cds#2 R.norvegicus genes for H2A and H2B histones /cde=(0,377) /gb=X59861 /gl=56345 /ug=Rn.11690 /len=378	
X60212	9752	P24049	9753	NM_0009 85	9754	P18621	9755	ribosomal protein L22	X60212 R.norvegicus ASI mRNA for mammalian equivalent of bacterial large ribosomal subunit protein L22 /cde=(29,583) /gb=X60212 /gl=57110 /ug=Rn.11395 /len=612	60S ribosomal protein L17 (L23) (Amino acid starvation- inducedprotein) (ASI).
X60468	9756	CAA42 998	9757	NM_0011 84	9758	O00213	9759	Integrase-like protein, APP interacting protein	X60468mRNA RRFE65G R.rattus FE65 gene for adaptor protein interacting with the beta- amyloid precursor protein intracellular domain	
X60469	9760	CAA42 999	9761	NM_0011 84	9762	O00213	9763	Integrase-like protein, APP interacting protein	X60469mRNA RRFE65 R.rattus FE65 mRNA for adaptor protein interacting with beta- amyloid precursor protein intracellular domain	
X60469	9764	CAA42 999	9765	NM_0011 84	9766	O00213	9767	Integrase-like protein, APP interacting protein	X60469mRNA RRFE65 R.rattus FE65 mRNA for adaptor protein interacting with beta- amyloid precursor protein intracellular domain	

Table 2.

X60767	9768	P39851	9769	X05360	9770	P06493	9771	84.77	Cell division cycle control protein 2	X60767 mRNA RRCD2MR R. norvegicus mRNA for cdc2 promoter region	Nuclear.	Cell division control protein 2 homolog (EC 2.7.1.-) (p34 protein kinase) (Cyclin- dependent kinase 1) (CDK1).
X60769	9772	P21272	9773	NM_0051 94	9774	NP_005 185	9775	53	SF-B (silencer factor B)	X60769 mRNA Rat sfb mRNA for silencer factor B /cds=UNKNOWN /gb=X60769 /gi=57238 /ug=Rn.6479 /len=1146	Nuclear.	CCAAT/enhanc er binding protein beta (C/EBP beta) (Interleukin-6- dependent binding protein) (IL-6DBP) (Liver- enriched transcriptionalac tivator) (LAP) (Silencer factor B) (SF-B) (C/EBP-related protein 2
X61295	9776	CAA43 593	9777	U93574	9778	AAC512 79	9779	65	R. norvegicus L1 retroposon, ORF2 mRNA (partial)	X61295cds RNL1RTO2B R. norvegicus L1 retroposon, ORF2 mRNA (partial)		
X61381	9780	CAA43 655	9781	BC006794	9782	Q01628	9783	65	Interferon Induced mRNA	X61381cds RRIIMRNA R. rattus Interferon Induced mRNA		

Table 2.

X61654	9784	P28648	9785	X07982	9786	P08962	9787	78	Cd63 antigen	X61654 Rat mRNA for ad1-antigen /cde=(60,776) /gb=X61654 /gi=55601 /ug=Rn.11068 /len=860	Integral membrane protein. Lysosomal. SECRETOR Y GRANULES AND PLASMA MEMBRANE OF MANY CULTURED CELL LINES.	CD63 antigen (AD1 antigen).
X62322	9788	P23785	9789	X62320	9790	P28799	9791	89.93	Granulin	X62322 R.norvegicus mRNA for epithelin 1 and 2 /cde=(30,1799) /gb=X62322 /gi=56108 /ug=Rn.5820 /len=2137		Granulins precursor (Acrogranin) [Contains: Granulin 1 (Granulin G); Granulin 2 (Granulin F); Granulin 3 (Granulin B) (Epithelin 2); Granulin 4 (Granulin A) (Epithelin 1); Granulin 5 (Granulin C); Granul

Table 2.

X62322	9792	P23785	9793	X62320	9794	P28799	9785	89.93	Granulin	X62322 R.norvegicus mRNA for epithelin 1 and 2 /cds=(30,1799) /gb=X62322 /gi=56108 /ug=Rn.5820 /len=2137	Granulins precursor (Acrogranin) [Contains: Granulin 1 (Granulin G); Granulin 2 (Granulin F); Granulin 3 (Granulin B) (Epithelin 2); Granulin 4 (Granulin A) (Epithelin 1); Granulin 5 (Granulin C); Granulin
X62323	9796	P21677	9797	AA504291	9798	XP_047600	9799	93.65	Pan-1	X62323 R.norvegicus Pan-1 mRNA /cds=(0,1917) /gb=X62323 /gi=35277 /ug=Rn.10290 /len=2001	Nuclear. Transcription factor E2-alpha (immunoglobulin enhancer binding factor E12/E47) (Transcription factor-3) (TCF-3) (Transcription regulatorPan).
X62325	9800	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	TcRValphaT4 8a2 mRNA for T cell receptor V-alpha J-alpha	TcRValphaT4 8a2 mRNA for T cell receptor V-alpha J-alpha				X62325cds RRRT48A2 R.rattus TcRValphaT48a2 mRNA for T cell receptor V-alpha J-alpha	

Table 2.

X62325	9801	No Rat Protein Found.	No human homolog found.	No Human Protein Found.		R. rattus TcRValphaT4 8a2 mRNA for T cell receptor V-alpha J-alpha	X62325cds RRTRT48A2 R.rattus TcRValphaT48a2 mRNA for T cell receptor V-alpha J-alpha
X62660	9802	CAB46 530	9803 NIM_0008 47	9804 Q16772	9805	56	X62660mRNA RRGTS8 R.rattus mRNA for glutathione transferase subunit 8
X62839	9806	CAA44 643	9807 AL137790	9808 CAC196 84	9809	54	X62839mRNA RRP0CP3120 R.rattus mRNA for potassium channel protein (3120 bp)
X62839	9810	CAA44 643	9811 AL137790	9812 CAC196 84	9813	54	X62839mRNA RRP0CP3120 R.rattus mRNA for potassium channel protein (3120 bp)
X62840	9814	CAA44 644	9815 NIM_0049 76	9816 P48547	9817	82	X62840mRNA RRP0CP3145 R.rattus mRNA for potassium channel protein (3145 bp)
X62841	9818	CAA44 645	9819 AL137790	9820 CAC196 84	9821	75	X62841mRNA RRP0CP2858 R.rattus mRNA for potassium channel protein (2858 bp)
X62875	9822	No Rat Protein Found.	XM_04324 4	XP_043 244			X62875mRNA RNHMG1 R.norvegicus mRNA for High Mobility Group Protein I (Y), 3' UTR
X62875	9823	No Rat Protein Found.	XM_04324 4	XP_043 244			X62875mRNA RNHMG1 R.norvegicus mRNA for High Mobility Group Protein I (Y), 3' UTR
X62950	9824	AAA408 72	9825 XM_00300 9	XP_003 009	9826	76	X62950mRNA RNPBUS30 R.norvegicus mRNA (pBUS30) with repetitive elements
X62952	9826	P31000	9827 BF344933	P05386 9828	9829	94.74	X62952 R.norvegicus mRNA for vimentin /cde=(80,1480) /gb=X62952 /gi=57479 /ug=Fn.2710 /len=1796
X63143	9830	CAA44 848	9831 AF248634	O75056 9832	9833	45	X63143 RRNEUROG Rattus rattus mRNA for neuroglycan, partial
							Vimentin.

Table 2.

X63375	9834	AAA407 80	9835	NM_0016 77	9836	P05026	9837	90	Beta-1 subunit of Na,K- ATPase	J02701	X63375exon RRB1NKATP R.rattus gene for beta-1 subunit of Na,K-ATPase
X63375	9838	AAA407 80	9839	NM_0016 77	9840	P05026	9841	90	Beta-1 subunit of Na,K- ATPase	J02701	X63375exon RRB1NKATP R.rattus gene for beta-1 subunit of Na,K-ATPase
X63594	9842	CAA45 138	9843	NM_0205 29	9844	P25963	9845	85	NF-KAPPA B INHIBITOR ALPHA		X63594cnds RRRLIF1 R.rattus RL/IF-1 mRNA
X63594	9846	CAA45 138	9847	NM_0205 29	9848	P25963	9849	85	NF-KAPPA B INHIBITOR ALPHA		X63594cnds RRRLIF1 R.rattus RL/IF-1 mRNA
X63594	9850	CAA45 138	9851	NM_0205 29	9852	P25963	9853	85	NF-KAPPA B INHIBITOR ALPHA		X63594cnds RRRLIF1 R.rattus RL/IF-1 mRNA
X63594	9854	CAA45 138	9855	NM_0205 29	9856	P25963	9857	85	NF-KAPPA B INHIBITOR ALPHA		X63594cnds RRRLIF1 R.rattus RL/IF-1 mRNA
X63854	9858	P38372	9859	X57522	9860	Q03518	9861	88	mtp2a		X63854 Rat mRNA for transporter polypeptide mtp2 /cds=(89,2200) /gb=X63854 /lg=56718 /ug=Rn.10372 /len=2426
X64401	9862	P04800	9863	J04813	9864	P20815	9865	85,98	Cytochrome P450 PCN1		X64401cnds RNCYP3A1R R.norvegicus CYP 3A1 mRNA
X64403	9866	P26801	9867	U20240	9868	P53567	9869	92	Rat homolog to a human CCAAT/enhanc er binding protein - gamma		X64403 R.norvegicus c/ebp gamma mRNA /cds=(0,707) /gb=X64403 /lg=55927 /ug=Rn.10332 /len=1430
X65228	9870	CAA46 336	9871	NM_0009 84	9872	P28316	9873	98	Ribosomal protein L23a		X65228cnds RRRPL23A R.rattus mRNA for ribosomal protein L23a

Antigen peptide  
transporter-2  
(APT2).Integral  
membrane  
protein.Membrane-  
bound.  
Endoplasmic  
reticulum.

Nuclear.

CCAAT/enhanc  
er binding  
protein gamma  
(C/EBP  
gamma).



Table 2.

X65454	9874	Q64375	9875	U47621	9876	Q92791	9877	93.83	SC65 synaptonemal complex protein	X65454 R.norvegicus mRNA for SC65 /cds=(19,1314) /gb=X65454 /gi=57191 /ug=Rn.10547 /len=1407	NUCLEAR. LOCATED IN THE PAIRING ZONE OF THE SYNAPTON EMAL COMPLEX.	Synaptonemal complex protein SC65.
X65454	9878	Q64375	9879	U47621	9880	Q92791	9881	93.83	SC65 synaptonemal complex protein	X65454 R.norvegicus mRNA for SC65 /cds=(19,1314) /gb=X65454 /gi=57191 /ug=Rn.10547 /len=1407	NUCLEAR. LOCATED IN THE PAIRING ZONE OF THE SYNAPTON EMAL COMPLEX.	Synaptonemal complex protein SC65.
X65454	9882	Q64375	9883	U47621	9884	Q92791	9885	93.83	SC65 synaptonemal complex protein	X65454 R.norvegicus mRNA for SC65 /cds=(19,1314) /gb=X65454 /gi=57191 /ug=Rn.10547 /len=1407	NUCLEAR. LOCATED IN THE PAIRING ZONE OF THE SYNAPTON EMAL COMPLEX.	Synaptonemal complex protein SC65.
X65454	9886	Q64375	9887	U47621	9888	Q92791	9889	93.83	SC65 synaptonemal complex protein	X65454 R.norvegicus mRNA for SC65 /cds=(19,1314) /gb=X65454 /gi=57191 /ug=Rn.10547 /len=1407	NUCLEAR. LOCATED IN THE PAIRING ZONE OF THE SYNAPTON EMAL COMPLEX.	Synaptonemal complex protein SC65.

Table 2.

X65948	9890	P29053	9891	M76766	9892	Q00403	9893	89.74	alpha Initiation factor	X65948 R.norvegicus mRNA for alpha Initiation factor /cds=(16,966) /gb=X65948 /gi=55623 /ug=Rn.6109 /len=1227	Nuclear.	Transcription factor IIB (General transcription factor)(TFIIB) (RNA polymerase II alpha Initiation factor).
X66022	9894	P56163	9895	U43843	9896	Q82782	9897	93.5	Neuro-44	X66022mRNA#1 RNND4P R.norvegicus mRNA for neuro-D4 protein	Nuclear and cytoplasmic.	Zinc-finger protein neuro-d4.
X66140	9898	Q83180	9899	AF215824	9900	Q9H2U9	9901	82.3	Epididymal apical protein I	X66140 R.norvegicus mRNA for epididymal apical protein I /cds=(46,2415) /gb=X66140 /gi=56069 /ug=Rn.10357 /len=3586	Type I membrane protein.	ADAM 7 precursor (A disintegrin and metalloproteinase domain 7)(Epididymal apical protein I) (EAP I).
X66366	9902	Q03555	9903	AK025169	9904	Q9NQX <sub>3</sub>	9905	85.58	Gephyrin	X66366 R.norvegicus mRNA for gephyrin /cds=(273,2483) /gb=X66366 /gi=56311 /ug=Rn.11032 /len=3345	CYTOPLAS MIC FACE OF GLYCINERG IC POSTSYNA PTIC MEMBRANE S.	Gephyrin (Putative glycine receptor-tubulin linker protein).
X66366	9906	Q03555	9907	AK025169	9908	Q9NQX <sub>3</sub>	9909	85.58	Gephyrin	X66366 R.norvegicus mRNA for gephyrin /cds=(273,2483) /gb=X66366 /gi=56311 /ug=Rn.11032 /len=3345	CYTOPLAS MIC FACE OF GLYCINERG IC POSTSYNA PTIC MEMBRANE S.	Gephyrin (Putative glycine receptor-tubulin linker protein).

Table 2.

X66494	9910	P28570	9911	S74039	9912	P48029	9913	95.81	CHOT1 mRNA	X66494 R.norvegicus CHOT1 mRNA /cds=(636,2543) /gb=X66494 /gi=55948 /ug=Rn.10336 /len=3957	Integral membrane protein.	Sodium-dependent choline transporter (CHOT1).
X66845	9914	Q63100	9915	AF063228	9916	O14576	9917	93.2	Dyneln, cytoplasmic, intermediate chain 1	X66845 R.norvegicus mRNA for cytoplasmic dyneln 74 kD intermediate chain /cds=(158,2089) /gb=X66845 /gi=55923 /ug=Rn.11273 /len=2840		"Dyneln intermediate chain 1, cytosolic (DHIC-1) (Cytoplasmic dyneln intermediate chain 1)."
X66870	9918	P48679	9919	AF381029	9920	P02545	9921	92.76	lamin A	X66870 R.norvegicus mRNA for lamin A /cds=(165,2087) /gb=X66870 /gi=56550 /ug=Rn.90 /len=3069	Nuclear.	Lamin A.
X66974	9922	P47728	9923	NM_007087	9924	P22676	9925	92.88	R.norvegicus mRNA for calretinin	X66974 R.norvegicus mRNA for calretinin /cds=(54,869) /gb=X66974 /gi=55852 /ug=Rn.10321 /len=1436		Calretinin (CR).
X66974	9926	P47728	9927	NM_007087	9928	P22676	9929	92.88	R.norvegicus mRNA for calretinin	X66974 R.norvegicus mRNA for calretinin /cds=(54,869) /gb=X66974 /gi=55852 /ug=Rn.10321 /len=1436		Calretinin (CR).
X67788	9930	P31977	9931	X51521	9932	P15311	9933	95	Ezrin	X67788 R.norvegicus mRNA for ezrin p81 /cds=(0,483) /gb=X67788 /gi=56125 /ug=Rn.773 /len=1489	Cytoplasmic.	Ezrin (p81) (Cytovillin) (Villin 2) (Fragment).
X67859	9934	P38656	9935	NM_003142	9936	P05455	9937	78	MRNA for autoantigen	X67859 R.norvegicus mRNA for autoantigen /cds=(37,1284) /gb=X67859 /gi=55778 /ug=Rn.24494 /len=1501	Nuclear.	Lupus La protein homolog (La ribonucleoprotein) (La autoantigen homolog).
X67859	9938	P38656	9939	NM_003142	9940	P05455	9941	78	MRNA for autoantigen	X67859 R.norvegicus mRNA for autoantigen /cds=(37,1284) /gb=X67859 /gi=55778 /ug=Rn.24494 /len=1501	Nuclear.	Lupus La protein homolog (La ribonucleoprotein) (La autoantigen homolog).

Table 2.

X67877	9942	CAA48 076	9943	XM_03700 4	9844	XP_037 004	9945	67	cytosolic resiniferatoxin binding protein RBP- 26		X67877 R.norvegicus mRNA for cytosolic resiniferatoxin-binding protein /cds=(28,735) /gb=X67877 /gl=311659 /ug=Rn.10317 /len=1526			
X67877	9946	CAA48 076	9947	XM_03700 4	9948	XP_037 004	9949	67	cytosolic resiniferatoxin binding protein RBP- 26		X67877 R.norvegicus mRNA for cytosolic resiniferatoxin-binding protein /cds=(28,735) /gb=X67877 /gl=311659 /ug=Rn.10317 /len=1526			
X68101	9950	CAA48 220	9951	AB028981	9952	XP_048 926		90.06	tg		X68101 R.norvegicus tg mRNA /cds=(0,2217) /gb=X68101 /gl=550419 /ug=Rn.10431 /len=3227			
X68394	9953	CAA48 460	9954	NIM_0025 24	9955	P01111	9956	94	N-ras gene for p21protein	AA943331	X68394 R.norvegicus N-ras gene for p21 protein /cds=(135,704) /gb=X68394 /gl=58768 /ug=Rn.11271 /len=3350			
X68782	9957	CAA48 681		BC009851	9958	P01871	9959	59	Ig heavy chain VDJ-region CH1-CH2		X68782cds RNIGHCH R.norvegicus mRNA for Ig heavy chain VDJ-region CH1-CH2			
X68903	9960	CAA49 528	9961	NIM_0004 18	9962	P24394	9963	46	Interleukin 4 receptor		X68903 R.norvegicus mRNA for interleukin 4 receptor /cds=(9,2411) /gb=X68903 /gl=56390 /ug=Rn.10471 /len=2450		Type III membrane protein .	Sodium/potassi um-transporting ATPase gamma chain (Sodium pump gamma chain) (Na+/K+- ATPase gamma subunit) (FX) domain- containing iontransport regulator 2).
X70062	9964	Q04679	9965	X86400	9966	Q15332	9967	86.24	Gamma subunit of sodium potassium ATPase		X70062 R.norvegicus mRNA for gamma subunit of sodium potassium ATPase /cds=(26,202) /gb=X70062 /gl=56299 /ug=Rn.6700 /len=645			

**Table 2.**

	X70682	9888	Q63277	9869	U33428	9970	Q14722	9971	92.4	potassium channel		Cytoplasmic .	Voltage-gated potassium channel beta-1 subunit (K+ channel beta-1 subunit) (Kv-beta-1).
X70682													
X70687	9872	CAA50005	9973	NIM_01888	9974	NP_083941	9975	98		Melanocortin-3 receptor T-plastin	X70687cds RRM3RA R.rattus mRNA for melanocortin-3 receptor X70706cds RNTPLAS R.norvegicus mRNA for T-plastin X71127 R.norvegicus mRNA for complement protein C1q beta chain /cde=(187,948) /gb=X71127 /gi=510191 /ug=Rn.6702 /len=1095	Cytoplasmic.	"Complement C1g subcomponent, B chain precursor."
X70706	9876	Q63598	9977	NM_005032	9978	P13797	9979	91.22					
X71127	9880	P31721	9881	XO3084	9882	P02746	9883	81.22		complement protein C1q beta chain			
X71127	9884	P31721	9885	XO3084	9886	P02746	9887	81.22		complement protein C1q beta chain			
X72757	9888	CAA51286	9889	XM_012265		XP_012265		79		R.norvegicus cox VIa gene (liver)	X72757 R.norvegicus cox VIa gene (liver) /cde=(58,354) /gb=X72757 /gi=485266 /ug=Rn.880 /len=607		"Complement C1q subcomponent, B chain precursor."
X72757	9890	CAA51286	9891	XM_012265		XP_012265		79		R.norvegicus cox VIa gene (liver)	X72757 R.norvegicus cox VIa gene (liver) /cde=(58,354) /gb=X72757 /gi=485266 /ug=Rn.880 /len=607		
X73371	9892	Q63203	9893	NM_004001	9894	P31994	9895	52		Fc gamma receptor	X73371 R.norvegicus mRNA for Fc gamma receptor /cde=(124,981) /gb=X73371 /gi=387576 /ug=Rn.10363 /len=1430	Type I membrane protein.	Low affinity immunoglobulin gamma FC region receptor II precursor (FC-gamma RI) (FCRII) (IGG FC receptor II beta),

Table 2.

X73653	9996	P18266	9997	BC000251	9998	P49841	9999	91.73	Tau protein kinase I	X73653 R. norvegicus mRNA for tau protein kinase I /cds=(139,1401) /gb=X73653 /gi=402651 /ug=Rn.10428 /len=1525	Glycogen synthase kinase-3 beta (EC 2.7.1.37) (GSK-3 beta) (Factor A)(FA).
X73911	10000	P36533	10001	U11863	10002	P19801	10003	87.81	Amiloride binding protein	X73911 R.norvegicus mRNA for amiloride binding protein (long form) /cds=(73,2313) /gb=X73911 /gi=395064 /ug=Rn.3190 /len=2650	Extracellular. Amiloride-sensitive amine oxidase (copper-containing) precursor(EC 1.4.3.6) (Diamine oxidase) (DAO) (Amiloride-binding protein)(ABP) (Histaminase).
X74228	10004	CAA52297	10005	AB014538	10006	BAB55164	10007	93.84	LL5 mRNA	X74228 R.norvegicus LL5 mRNA /cds=(152,2497) /gb=X74228 /gi=397578 /ug=Rn.11128 /len=3745	
X74402	10008	P50388	10009	X79353	10010	P31150	10011	90.77	rab GDI alpha	X74402 R.norvegicus rab GDI alpha mRNA /cds=(30,1373) /gb=X74402 /gi=398430 /ug=Rn.11024 /len=1401	Cytoplasmic. RAB GDP dissociation inhibitor alpha (RAB GDI alpha) (GDI-1).
X74593	10012	P27867	10013	L28008	10014	Q00796	10015	82	Sorbitol dehydrogenase	X74593 R.norvegicus mRNA for sorbitol dehydrogenase /cds=(56,1255) /gb=X74593 /gi=397356 /ug=Rn.11334 /len=2234	Sorbitol dehydrogenase (EC 1.1.1.14) (L-iditol 2-dehydrogenase)
X74800	10016	CAA52807	10017	X98507	10018	Q00159	10019	91	MYR2 mRNA for myosin I heavy chain	X74800 R.norvegicus MYR2 mRNA for myosin I heavy chain /cds=(266,3352) /gb=X74800 /gi=400428 /ug=Rn.10375 /len=3810	

Table 2.

X74834	10020	P18916	10021	NM_005199	10022	NP_005190	10023	90	Cholinergic receptor, nicotinic, gamma polypeptide			X74834cde RNACRG1 R.norvegicus mRNA for acetylcholine receptor gamma-subunit	Integral membrane protein.	"Acetylcholine receptor protein, gamma chain precursor."
X74835	10024	P25110	10025	X55019	10026	Q07001	10027	87.01	Cholinergic receptor, nicotinic, delta polypeptide			X74835cde RNZCRD1 R.norvegicus mRNA for acetylcholine receptor delta-subunit	Integral membrane protein.	"Acetylcholine receptor protein, delta chain precursor."
X74978	10028	NP_064457	10029	XM_039822	10030	XP_039822	10031	74	Prostatic acid phosphatase		NM_020072	X74978exon RNACPP11 R.norvegicus gene for prostatic acid phosphatase, exon 11		
X75207	10032	P39948	10033	BC000076	10034	P24385	10035	93	Cyclin D1		AA857218	X75207 R.norvegicus CCND1 mRNA for cyclin D1 /cds=(152,1039) /gb=X75207 /gi=473122 /ug=Rn.9471 /len=1454		G1/S-specific cyclin D1.
X75207	10036	P39948	10037	BC000076	10038	P24385	10039	93	Cyclin D1			X75207 R.norvegicus CCND1 mRNA for cyclin D1 /cds=(152,1039) /gb=X75207 /gi=473122 /ug=Rn.9471 /len=1454		G1/S-specific cyclin D1.
X76724	10040	Q64284	10041	AF028749	10042	Q13303	10043	91.06	RCK beta2			X76724 R.norvegicus RCK beta2 mRNA /cds=(592,1895) /gb=X76724 /gi=498327 /ug=Rn.10757 /len=1700	Cytoplasmic.	Voltage-gated potassium channel beta-2 subunit (K+ channel beta-2 subunit) (Kv-beta-2) (Neuroimmune protein F5).

Table 2.

X76988	10044	Q11205	10045	X96867	10046	NP_008858	10047	87.89	Gal beta 1,3-GalNAc alpha-2,3-sialyltransferase	X76988cds RNALNACS R.norvegicus mRNA for gal beta 1,3 galNAc alpha 2,3-sialyltransferase	TYPE II MEMBRANE PROTEIN. MEMBRANE-BOUND FORM IN TRANS CISTERNAE OF GOLGI, SOLUBLE FORM IN BODY FLUIDS."	"CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,3-sialyltransferase (EC 2.4.99.-) (Beta-galactoside alpha-2,3-sialyltransferase) (Alpha2,3-ST) (GalNAc6S) (Gal-beta-1,3-GalNAc-alpha-2,3-sialyltransferase"
X77237	10048	P53042	10049	BC001970	10050	P53041	10051	80.92	Protein phosphatase 5, catalytic subunit	X77237 R.norvegicus mRNA for protein phosphatase T /cds=(12,1611) /gb=X77237 /gi=663079 /ug=Rn.6107 /len=1873	Nuclear.	Serine/threonine protein phosphatase 5 (EC 3.1.3.16) (PP5) (Proteinphosphatase T) (PPT).
X77834	10052	CAA54806	10053	NIM_001642	10054	Q06481	10055	79	Amyloid precursor-like protein 2	X77834cds RNWAPLP2 R.norvegicus (Wistar) mRNA for amyloid precursor-like protein 2		
X77834	10056	CAA54806	10057	NIM_001642	10058	Q06481	10059	79	Amyloid precursor-like protein 2	X77834cds RNWAPLP2 R.norvegicus (Wistar) mRNA for amyloid precursor-like protein 2		
X78593	10060	P35571	10061	AK022596	10062	AAB60403	10063	92.07	Glycerol-3-phosphate dehydratase	X78593 R.norvegicus mRNA for glycerol-3-phosphate dehydrogenase /cds=(81,2274) /gb=X78593 /gi=603582 /ug=Rn.10167 /len=2400	Mitochondrial	"Glycerol-3-phosphate dehydrogenase, mitochondrial precursor(EC 1.1.99.5) (GPD-1) (GPDH-M)." (M)



Table 2.

X78593	10064	P35571	10065	AK022596	10066	AAB604 03	10067	92.07	Glycerol-3- phosphate dehydratase e	U83880	X78593 R.norvegicus mRNA for glycerol-3- phosphate dehydrogenase /cds=(91,2274) /gb=X78593 /gi=603582 /ug=Rn.10167 /len=2400	Mitochondrial	"Glycerol-3- phosphate dehydrogenase, mitochondrial precursor(EC 1.1.99.5) (GPD- M) (GPDH-M)."
X78593	10068	P35571	10069	AK022596	10070	AAB604 03	10071	92.07	Glycerol-3- phosphate dehydratase e	U83880	X78593 R.norvegicus mRNA for glycerol-3- phosphate dehydrogenase /cds=(91,2274) /gb=X78593 /gi=603582 /ug=Rn.10167 /len=2400	Mitochondrial	"Glycerol-3- phosphate dehydrogenase, mitochondrial precursor(EC 1.1.99.5) (GPD- M) (GPDH-M)."
X78593	10072	P35571	10073	AK022596	10074	AAB604 03	10075	92.07	Glycerol-3- phosphate dehydratase e	U83880	X78593 R.norvegicus mRNA for glycerol-3- phosphate dehydrogenase /cds=(91,2274) /gb=X78593 /gi=603582 /ug=Rn.10167 /len=2400	Mitochondrial	"Glycerol-3- phosphate dehydrogenase, mitochondrial precursor(EC 1.1.99.5) (GPD- M) (GPDH-M)."
X78603	10076	Q83055	10077	X91504	10078	Q13795	10079	97	R.norvegicus (Sprague Dawley) ARP1 mRNA for ARF-related protein		X78603 R.norvegicus (Sprague Dawley) ARP1 mRNA for ARF-related protein /cds=(137,742) /gb=X78603 /gi=1103618 /ug=Rn.10973 /len=925		ARF-related protein (ARP).
X78606	10080	P51158	10081	BC018067	10082	P51157	10083	93.86	R.norvegicus (Sprague Dawley) rab28 mRNA for ras- homologous GTPase		X78606 R.norvegicus (Sprague Dawley) rab28 mRNA for ras-homologous GTPase /cds=(18,693) /gb=X78606 /gi=1154900 /ug=Rn.4023 /len=1472		Ras-related protein Rab-28 (RAB-28).

Table 2.

X78949	10084	P64001	10085	M24487	10086	P13674	10087	91.41	Prolyl 4-hydroxylase alpha subunit	X78949 R.norvegicus mRNA for prolyl 4-hydroxylase alpha subunit /cds=(69,1673) /gb=X78949 /gi=474939 /ug=Rn.8531 /len=1838	Endoplasmic reticulum lumen.	Prolyl 4-hydroxylase alpha-1 subunit precursor (EC 1.14.11.2) (4-PhAlpha-1) (Procollagen-proline,2-oxoglutarate-4-dioxygenase alpha-1 subunit)."
X78949	10088	P54001	10089	M24487	10090	P13674	10091	91.41	Prolyl 4-hydroxylase alpha subunit	X78949 R.norvegicus mRNA for prolyl 4-hydroxylase alpha subunit /cds=(69,1673) /gb=X78949 /gi=474939 /ug=Rn.8531 /len=1838	Endoplasmic reticulum lumen.	Prolyl 4-hydroxylase alpha-1 subunit precursor (EC 1.14.11.2) (4-PhAlpha-1) (Procollagen-proline,2-oxoglutarate-4-dioxygenase alpha-1 subunit)."

Table 2.

X79321	10092	P19332	10093	AF456477	10094	NP_058518	10095	93.87	Tau microtubule-associated protein	X79321 R.norvegicus (Wistar) mRNA for tau microtubule-associated protein /cds=(231,1355) /gb=X79321 /gi=517393 /ug=Rn.2455 /len=5208	"MOSTLY FOUND IN THE AXONS OF NEURONS, IN THE CYTOSOL AND IN ASSOCIATION WITH PLASMA MEMBRANE COMPONENTS."	Microtubule-associated protein tau (Neurofibrillary tangle protein)/Paired helical filament-tau (PHF-tau).
X80130	10096	CAA56429	10097	NM_005159	10098	P04270	10099	100	Alpha-actin cardiac protein	X80130cds RRALPHAAC R.rattus mRNA for alpha-actin cardiac protein		
X80130	10100	CAA56429	10101	NM_005159	10102	P04270	10103	100	Alpha-actin cardiac protein	X80130cds RRALPHAAC R.rattus mRNA for alpha-actin cardiac protein		
X80130	10104	CAA56429	10105	NM_005159	10106	P04270	10107	100	Alpha-actin cardiac protein	X80130cds RRALPHAAC R.rattus mRNA for alpha-actin cardiac protein		
X80130	10108	CAA56429	10109	NM_005159	10110	P04270	10111	100	Alpha-actin cardiac protein	X80130cds RRALPHAAC R.rattus mRNA for alpha-actin cardiac protein		
X80395	10112	CAA56604	10113	NM_003055	10114	NP_003046	10115	87	AVAT gene	X80395cds RRRVAT R.rattus AVAT gene		
X82021	10116	P50503	10117	U17714	10118	P50502	10119	89.77	Suppression of tumorigenicity 13 (colon carcinoma) Hsp70-Interacting protein	X82021cds RNHSRP R.norvegicus mRNA for heat shock related protein	Cytoplasmic.	Hsc70-Interacting protein (Hsp) (Putative tumor suppressor ST13).

Table 2.

X82669	10120	P15978	10121	L36318	10122	P30474	10123	75	RT1 class Ib gene (histocompatibility antigen)	X82669 completeSeq R.norvegicus RT1.Au gene /cds=UNKNOWN /gb=X82669 /gl=2809331 /ug=Rn.3577 /len=3949	"Class I histocompatibility antigen, Non-RT1.A alpha-1 chain precursor."
X82669	10124	P15978	10125	L36318	10126	P30474	10127	75	RT1 class Ib gene (histocompatibility antigen)	X82669 completeSeq R.norvegicus RT1.Au gene /cds=UNKNOWN /gb=X82669 /gl=2809331 /ug=Rn.3577 /len=3949	"Class I histocompatibility antigen, Non-RT1.A alpha-1 chain precursor."
X83537	10128	Q10739	10129	X83535	10130	P50281	10131	91	MT-MMP	X83537 R.norvegicus mRNA for membrane-type matrix metalloproteinase /cds=(172,1920) /gb=X83537 /gl=805012 /ug=Rn.10371 /len=2383	Matrix metalloproteinase-14 precursor (EC 3.4.24.-) (MMP-14) (Membrane-type matrix metalloproteinase 1) (MT-MMP 1) (MTMMP1) (Membrane-type-1 matrix metalloproteinase) (MT1-MMP) (MT1MMP) (MT-MMP).

Table 2.

X83579	10132	P51952	10133	BC000834	10134	P50613	10135	89,05	R. norvegicus mRNA for Cdk- activating kinase	X83579 R. norvegicus mRNA for Cdk- activating kinase /cds=(0,940) /gb=X83579 /gi=619508 /ug=Rn.10331 /len=989	Nuclear .	Cell division protein kinase 7 (EC 2.7.1.-) (CDK-activating kinase)(CAK) (TFIIH basal transcription factor complex kinase subunit) (39protein kinase) (P39 Mo15) (Fragment).
X83887	10136	Q64678	10137	U03688	10138	Q16678	10139	84,64	cytochrome P450	X83887cds CYP1B1 R. norvegicus CYP1B1 mRNA for cytochrome P450	Membrane- bound. Endoplasmic reticulum.	Cytochrome P450 1B1 (EC 1.14.14.1) (CYP1B1) (P450RAP).
X84210	10140	P09414	10141	XM_04682 6		AAC157 52	10142	75	Nuclear Factor 1A	X84210completeSeq R. norvegicus mRNA for transcription factor NF1 (L4) /cds=UNKNOWN /gb=X84210 /gi=1488642 /ug=Rn.10550 /len=3276	Nuclear.	Nuclear factor 1 A-type (Nuclear factor 1A) (NF1- A) (NF1-A) (NF- 1A)(CCAAT-box binding transcription factor) (CTF) (TGGCA- bindingprotein).

**Table 2.**

X84210	10143	P09414	10144	XM_046826	10148	Q9BYT8	10149	89	neurotensin-degrading neutral metalloendopeptidase; neurolysin	75	Nuclear factor 1A	X84210 completeSeq R.norvegicus mRNA for transcription factor NF1 (L4) /cds=UNKNOWN /gb=X84210 /gi=1488642 /ug=Rn.10550 /len=3276	Nuclear.	Nuclear factor 1 A-type (Nuclear factor 1A) (NF1-A) (NF1-A) (NF1-A) (NF1-A) (CCAAT-box binding transcription factor) (CTF) (TGGCA-binding protein).
X87157	10146	P42676	10147	NM_020728	10148	Q9BYT8	10149	89	neurotensin-degrading neutral metalloendopeptidase; neurolysin	75	Nuclear factor 1A	X87157 R.norvegicus mRNA for neurotensin endopeptidase /cds=(143,2257) /gb=X87157 /gi=987086 /ug=Rn.11028 /len=2448	MITOCHONDRIAL INTERMEMBRANE SPACE AND ALSO CYTOPLASMIC.	"Neurolysin, mitochondrial precursor (EC 3.4.24.16) (Neurotensin endopeptidase) (Mitochondrial oligopeptidase M) (Microsomal endopeptidase) (MEP)."
X87885	10150	P97834	10151	NM_004127	10152	Q13098	10153	92	Mammalian fusca protein	75	Nuclear factor 1A	X87885 R.norvegicus mRNA for mammalian fusca protein /cds=(0,1415) /gb=X87885 /gi=871527 /ug=Rn.16873 /len=1416	Nuclear and cytoplasmic.	COP9 signalosome complex subunit 1 (G protein pathway suppressor 1)(GPS1 protein) (MFH protein).
X88697	10154	CAA61844	10155	AF398628	10156	AAK95114	10157	72	TPCR07 protein (olfactory receptor)	75	Nuclear factor 1A	X88697 cds RNTPCR07P R.norvegicus mRNA for TPCR07 protein		

Table 2.

X89698	10158	CAA61 845	10159	AF399578	10160	AAK950 64	10161	69	TPCR09 protein (putative olfactory receptor)	X89698cds RNTPCR09P R.norvegicus mRNA for TPCR09 protein
X89703	10162	CAA61 850	10163	X89675	10164	CAA618 22	10165	46	TPCR19 protein	X89703cds RNTPCR19P R.norvegicus mRNA for TPCR19 protein
X91810	10166	P52631	10167	L29277	10168	P40763	10169	92.03	Stat3 protein	X91810 R.norvegicus mRNA for Stat3 protein /cds=(0,2312) /gb=X91810 /gi=1107848 /ug=Rn.10247 /len=2924
X92070	10170	P51579	10171	BE876713	10172	NP_005 437	10173	86.22	P2X6	X92070 R.norvegicus mRNA for P2X6 protein /cds=(13,1152) /gb=X92070 /gi=1279660 /ug=Rn.10258 /len=2167
X92097	10174	Q63524	10175	BG255482	10176	Q15363	10177	93.82	Coated vesicle membrane protein	X92097 R.norvegicus mRNA for transmembrane protein mp21.4 /cds=(23,628) /gb=X92097 /gi=1213220 /ug=Rn.22775 /len=716
X92097	10178	Q63524	10179	BG255482	10180	Q15363	10181	93.82	Coated vesicle membrane protein	X92097 R.norvegicus mRNA for transmembrane protein mp21.4 /cds=(23,628) /gb=X92097 /gi=1213220 /ug=Rn.22775 /len=716

Signal  
transducer and  
activator of  
transcription 3.

Nuclear,  
translocated  
into the  
nucleus in  
response to  
phosphorylat  
on.

P2X  
purinoceptor 6  
(ATP receptor)  
(P2X6)  
(Purhergic  
receptor)(P2XM)  
(Purhergic  
receptor P2X-  
like 1).

TYPE I  
MEMBRANE  
PROTEIN.  
GOLGI-  
DERIVED  
COATOMER-  
COATED  
VESICLES.

TYPE I  
MEMBRANE  
PROTEIN.  
GOLGI-  
DERIVED  
COATOMER-  
COATED  
VESICLES.

Table 2.

X92184	10182	CAA63095	10183	MT7235	10184	Q14524	10185	92.45	Voltage-gated sodium channel (SNS)	X92184 R.norvegicus mRNA for voltage-gated sodium channel (SNS) /cds=(203,6076) /gb=X92184 /gl=1209466 /ug=Rn.10246 /len=6509			
X94246	10186	P51974	10187	AK023855	10188	A54429		94.38	Pax-8 protein	X94246 R.norvegicus mRNA for Pax-8 protein /cds=(45,1421) /gb=X94246 /gl=1122895 /ug=Rn.10392 /len=1693	Nuclear.	Paired box protein Pax-8.	
X95850	10189	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			R.norvegicus mRNA for novel gene expressed in circadian manner, clone SCN8	X95850 mRNA RNSCN8 R.norvegicus mRNA for novel gene expressed in circadian manner, clone SCN8			
X96394	10190	CAA65258	10191	NM_019900	10192	P33527	10193	84.68	multidrug resistance protein	X96394 R.norvegicus mRNA for multidrug resistance protein /cds=(0,325) /gb=X96394 /gl=1292883 /ug=Rn.10495 /len=813			
X96426	10194	P70531	10195	NM_013302	10196	O00418	10197	86	Skeletal muscle elongation factor-2 kinase	X96426 R.norvegicus mRNA for skeletal muscle elongation factor-2 kinase /cds=(290,2464) /gb=X96426 /gl=1485778 /ug=Rn.10958 /len=4782		Elongation factor 2 kinase (EC 2.7.1.-) (eEF-2 kinase) (eEF-2K)(Calcium/calmodulin-dependent eukaryotic elongation factor-2 kinase).	
X96437	10198	No Rat Protein Found.		X96438	10189	CAA65304	10200		R.norvegicus PRG1 gene (contains a transcription factor domain)	X96437 mRNA RNPRG1 R.norvegicus PRG1 gene			





Table 2.

X99267	10230	O88777	10231	L43964	10232	P49810	10233	89.71	Presenilin-2	X99267 RNK99267 R.norvegicus mRNA for presenilin-2	INTEGRAL MEMBRANE PROTEIN. GOLGI AND ENDOPLAS MIC RETICULUM	Presenilin 2 (PS-2).
X99267	10234	O88777	10235	L43964	10236	P49810	10237	89.71	Presenilin-2	X99267 RNK99267 R.norvegicus mRNA for presenilin-2	INTEGRAL MEMBRANE PROTEIN. GOLGI AND ENDOPLAS MIC RETICULUM	Presenilin 2 (PS-2).
X99267	10238	O88777	10239	L43964	10240	P49810	10241	89.71	Presenilin-2	X99267 RNK99267 R.norvegicus mRNA for presenilin-2	INTEGRAL MEMBRANE PROTEIN. GOLGI AND ENDOPLAS MIC RETICULUM	Presenilin 2 (PS-2).
X99337	10242	P28453	10243	AF035287	10244	T17219		97.25	Stromal cell derived factor receptor 1	X99337cds RNGP55 R.norvegicus mRNA for glycoprotein 55		
X99337	10245	CAA67711	10246	AF035287	10247	NP_036560	10248	97.25	glycoprotein 55	X99337cds RNGP55 R.norvegicus mRNA for glycoprotein 55		
X99338	10249	CAA67712	10250	AF035287	10251	NP_036560	10252	97.25	Glycoprotein 65	X99338cds RNGP56 R.norvegicus mRNA for glycoprotein 65		
X99338	10253	CAA67712	10254	AF035287	10255	NP_036560	10256	97.25	Glycoprotein 65	X99338cds RNGP56 R.norvegicus mRNA for glycoprotein 65		
Y00311	10257	P08635	10258	AK001968	10259	XP_028540	10260	80.95	Thioesterase II	Y00311 Rat mRNA for thioesterase II (medium-chain S-acyl fatty acid synthetase thioester hydrolase) (cds=(51,842) /gb=Y00311 /gi=57334 /ug=Rn.9674 /len=1271	"S-acyl fatty acid synthetase, thioesterase, medium chain (EC 3.1.2.14)(Thioesterase II)."	

Table 2.

Y07704	10261	CAA68 971	10262	BC017969	10263	XP_039 079	10264	85.37	Rattus norvegicus mRNA Best5 protein	Y07704 Rattus norvegicus BEST5 mRNA for hypothetical protein /cds=(5,1087) /gb=Y07704 /gi=3135886 /ug=Rn.14882 /len=3595			
Y07704	10265	CAA68 971	10266	BC017969	10267	XP_039 079	10268	85.37	Rattus norvegicus mRNA Best5 protein	Y07704 Rattus norvegicus BEST5 mRNA for hypothetical protein /cds=(5,1087) /gb=Y07704 /gi=3135886 /ug=Rn.14882 /len=3595			
Y07704	10269	CAA68 971	10270	BC017969	10271	XP_039 079	10272	85.37	Rattus norvegicus mRNA Best5 protein	Y07704 Rattus norvegicus BEST5 mRNA for hypothetical protein /cds=(5,1087) /gb=Y07704 /gi=3135886 /ug=Rn.14882 /len=3595			
Y07704	10273	CAA68 971	10274	BC017969	10275	XP_039 079	10276	85.37	Rattus norvegicus mRNA Best5 protein	Y07704 Rattus norvegicus BEST5 mRNA for hypothetical protein /cds=(5,1087) /gb=Y07704 /gi=3135886 /ug=Rn.14882 /len=3595			
Y09333	10277	O55171	10278	L40401	10279	P49753	10280	71	R.norvegicus mRNA for mitochondrial very-long- chain acyl- CoA thioesterase	Y09333 R.norvegicus mRNA for mitochondrial very-long-chain acyl-CoA thioesterase /cds=(100,1461) /gb=Y09333 /gi=2832738 /ug=Rn.11328 /len=1711	Mitochondrial matrix	"Acyl coenzyme A thioester hydrolase, mitochondrial precursor(EC 3.1.2.2) (Very- long-chain acyl- CoA thioesterase) (MTE-I)."	
Y09333	10281	O55171	10282	L40401	10283	P49753	10284	71	R.norvegicus mRNA for mitochondrial very-long- chain acyl- CoA thioesterase	Y09333 R.norvegicus mRNA for mitochondrial very-long-chain acyl-CoA thioesterase /cds=(100,1461) /gb=Y09333 /gi=2832738 /ug=Rn.11328 /len=1711	Mitochondrial matrix	"Acyl coenzyme A thioester hydrolase, mitochondrial precursor(EC 3.1.2.2) (Very- long-chain acyl- CoA thioesterase) (MTE-I)."	

Table 2.

Y09507	10286	CAA70701	10286	AB073325	10287	Q16665	10288	96.02	hypoxia-inducible factor 1	Y09507 R. norvegicus mRNA for hypoxia-inducible factor 1 /cds=(123,2600) /gb=Y09507 /gi=2924301 /ug=Rn.10852 /len=2711	Integral membrane protein.	C-C chemokine receptor type 5 (C-C CKR-5) (CC-CKR-5) (CCR-5) (MIP-1alpha receptor).
Y12009	10289	O08556	10290	U03882	10291	P41597	10292	87.18	chemokine co-receptor CCR5	Y12009 R. norvegicus mRNA for chemokine co-receptor CCR5 /cds=(83,1147) /gb=Y12009 /gi=1911138 /ug=Rn.10736 /len=1428	Integral membrane protein.	C-C chemokine co-receptor type 5 (C-C CKR-5) (CC-CKR-5) (CCR-5) (MIP-1alpha receptor).
Y12009	10293	O08556	10294	U03882	10295	P41597	10296	87.18	R. norvegicus mRNA for chemokine co-receptor CCR5	Y12009 R. norvegicus mRNA for chemokine co-receptor CCR5 /cds=(83,1147) /gb=Y12009 /gi=1911138 /ug=Rn.10736 /len=1428	Integral membrane protein.	C-C chemokine co-receptor type 5 (C-C CKR-5) (CC-CKR-5) (CCR-5) (MIP-1alpha receptor).
Y12517	10297	P04166	10298	AB009282	10299	O43169	10300	87.68	mitochondrial isoform of cytochrome b5	Y12517cds RNOMB5MIT R. norvegicus mRNA for mitochondrial isoform of cytochrome b5	Mitochondrial outer membrane.	Cytochrome b5 outer mitochondrial membrane isoform precursor.
Y12635	10301	P50517	10302	BC003100	10303	P21281	10304	99	vacuolar adenosine triphosphatase	Y12635 R. norvegicus mRNA for vacuolar adenosine triphosphatase subunit B /cds=(14,1549) /gb=Y12635 /gi=2058353 /ug=Rn.13436 /len=1614	ENDOMEMBRANE.	Vacuolar ATP synthase subunit B, brain isoform (EC 3.6.3.14) (V-ATPaseB2 subunit) (Vacuolar proton pump B isoform 2) (Endomembrane proton pump 58 kDa subunit).*

Table 2.

Y13275	10305	CAA73 724	10306	BC005246	10307	P19075	10308	86.27	D6.1A protein
Y13336	10309	CAA73 780	10310	NM_0013 44	10311	P46966	10312	88	DAD-1 gene
Y13336	10313	CAA73 780	10314	NM_0013 44	10315	P46966	10316	88	DAD-1 gene
Y13381	10317	O08838	10318	U07616	10319	P49418	10320	91.5	Amphiphysin
Y13413	10321	O35827	10322	AF224708	10323	O95704	10324	90.48	Rattus norvegicus mRNA for Fe65L2 protein
Y13413	10325	O35827	10326	AF224708	10327	O95704	10328	90.48	Rattus norvegicus mRNA for Fe65L2 protein
Y13590	10329	CAA73 918	10330	AW89560 4	10331	XP_051 211	10332	87.6	calpastatin
Y13591	10333	CAA73 919	10334	AW89560 4	10335	XP_051 211	10336	87.6	calpastatin

Y13275 Rattus norvegicus mRNA for D6.1A protein /cds=(229,936) /gb=Y13275 /gi=2765305 /ug=Rn.6087 /len=1164

Y13336cds RNY13336 Rattus norvegicus DAD-1 gene

Y13336cds RNY13336 Rattus norvegicus DAD-1 gene

Y13381cds RNAMPH1 Rattus norvegicus mRNA for amphiphysin, amph1

Y13413 RNY13413 Rattus norvegicus mRNA for Fe65L2 protein

Y13413 RNY13413 Rattus norvegicus mRNA for Fe65L2 protein

Y13590 Rattus norvegicus mRNA for calpastatin, clone RNCAS110 /cds=(17,268) /gb=Y13590 /gi=2765343 /ug=Rn.10882 /len=328

Y13591 Rattus norvegicus mRNA for calpastatin, clone RNCAS123 /cds=(17,547) /gb=Y13591 /gi=2765345 /ug=Rn.10882 /len=608

ASSOCIATE  
D WITH THE  
CYTOPLAS  
MIC  
SURFACE  
OF  
SYNAPTIC  
VESICLES.

Amyloid beta A4  
precursor  
protein-binding  
family B  
member 3  
(Fe65-  
likeprotein 2).

Amyloid beta A4  
precursor  
protein-binding  
family B  
member 3  
(Fe65-  
likeprotein 2).

Table 2.

Y15054	10337	O35928	10338	XM_017983	XP_017983	79	70 kD tumor-specific antigen	Y15054 Rattus norvegicus mRNA for 70 kDa tumor specific antigen, partial /cds=(0,1332) /gb=Y15054 /gi=2505956 /ug=Rn.13808 /len=1950	70 kDa WD-repeat tumor rejection antigen (Fragment).
Y15068	10339	Q2511703	10340	M86752	P31948	97	Rattus norvegicus mRNA for Hsp70/Hsp90 organizing protein	Y15068 RNRNAHOP Rattus norvegicus mRNA for Hsp70/Hsp90 organizing protein	
Y15748	10343	O55173	10344	AK056253	NP_002604	93.79	3-phosphoinositide dependent protein kinase-1	Y15748 Rattus norvegicus mRNA for PkB kinase /cds=(58,1737) /gb=Y15748 /gi=2665355 /ug=Rn.10905 /len=1879	Cytoplasmic and membrane-associated after cell stimulation leading to its translocation. Tyrosine phosphorylation seems to occur only at the plasma membrane. 3-phosphoinositide dependent protein kinase-1 (EC 2.7.1.37) (Protein kinase B) (PKB) (kinase).



Table 2.

Y17048	10359	O88751	10360	X94700	10361	Q9NZU7	10362	92.24	Rattus norvegicus mRNA for caldendrin
Y17048	10363	O88751	10364	X94700	10365	Q9NZU7	10366	92.24	Rattus norvegicus mRNA for caldendrin
Y17048	10367	O88751	10368	X94700	10369	Q9NZU7	10370	92.24	Rattus norvegicus mRNA for caldendrin
Y17606	10371	CAA76804	10372	AF043473	10373	XP_009523	10374	90.84	Potassium channel, alpha subunit (Kv9.1)

  

Y17048 RNCALDE Rattus norvegicus mRNA for caldendrin	OCCURS IN BOTH THE CYTOPLASMIC AND CYTOSKELETAL COMPARTMENT OF CELL SOMATA AND DENDRITES.	Calcium-binding protein CaBP1 (Caldendrin).
Y17048 RNCALDE Rattus norvegicus mRNA for caldendrin	OCCURS IN BOTH THE CYTOPLASMIC AND CYTOSKELETAL COMPARTMENT OF CELL SOMATA AND DENDRITES.	Calcium-binding protein CaBP1 (Caldendrin).
Y17048 RNCALDE Rattus norvegicus mRNA for caldendrin	OCCURS IN BOTH THE CYTOPLASMIC AND CYTOSKELETAL COMPARTMENT OF CELL SOMATA AND DENDRITES.	Calcium-binding protein CaBP1 (Caldendrin).
Y17606 RNO17606 Rattus norvegicus mRNA for potassium channel, alpha subunit (Kv9.1)		



Table 2.

Y17607	10375	CAA76 805	10376	BC004987	10377	NP_002 243	10378	87.59	Rattus norvegicus mRNA for potassium channel, alpha subunit (Kv9.3)	Y17607 RNO17607 Rattus norvegicus mRNA for potassium channel, alpha subunit (Kv9.3)		
Y17607	10379	CAA76 805	10380	BC004987	10381	NP_002 243	10382	87.59	Rattus norvegicus mRNA for potassium channel, alpha subunit (Kv9.3)	Y17607 RNO17607 Rattus norvegicus mRNA for potassium channel, alpha subunit (Kv9.3)		
Z11581	10383	P42264	10384	AJ249209	10385	Q16478	10386	92.52	kainate receptor	Z11581 R.norvegicus mRNA for kainate receptor subunit (ka2) /cde=(202,3141) /gb=Z11581 /gj=56509 /ug=Rn.10053 /len=3702	Integral membrane protein.	"Glutamate receptor, ionotropic kainate 3 precursor (Glutamate receptor7) (GLUR-7) (GluR7)."*

Table 2.

Z11995	10387	Q89068	10388	AK027025	10389	P30533	10390	86	R.norvegicus mRNA encoding 45kDa protein which binds to heyman nephritis antigen gp330	Z11995cds RN45KDB R.norvegicus mRNA encoding 45kDa protein which binds to heyman nephritis antigen gp330	INTRACELL ULAR AND ASSOCIATE D WITH CELL SURFACE RECEPTOR S.	Alpha-2- macroglobulin receptor- associated protein precursor(Alpha- 2-MRAP) (Low density lipoprotein receptor-related protein- associated protein 1) (RAP) (GP330-binding 45 kDa protein) (Fragment).
Z11895	10391	Q88068	10392	AK027025	10393	P30533	10394	86	R.norvegicus mRNA encoding 45kDa protein which binds to heyman nephritis antigen gp330	Z11895cds RN45KDB R.norvegicus mRNA encoding 45kDa protein which binds to heyman nephritis antigen gp330	INTRACELL ULAR AND ASSOCIATE D WITH CELL SURFACE RECEPTOR S.	Alpha-2- macroglobulin receptor- associated protein precursor(Alpha- 2-MRAP) (Low density lipoprotein receptor-related protein- associated protein 1) (RAP) (GP330-binding 45 kDa protein) (Fragment).

Table 2.

Z11995	10395	Q98088	10396	AK027025	10397	P30533	10398	86	ALPHA-2-MACROGLOBULIN RECEPTOR-ASSOCIATED PROTEIN PRECURSOR	AA892810	Z11995cds RN45KDB R.norvegicus mRNA encoding 45kDa protein which binds to heyman nephritis antigen gp330	INTRACELLULAR AND ASSOCIATED WITH CELL SURFACE RECEPTORS.	Alpha-2-macroglobulin receptor-associated protein precursor(Alpha-2-MRAP) (Low density lipoprotein receptor-related protein-associated protein 1) (RAP) (GP330-binding 45 kDa protein) (Fragment).
Z11995	10389	Q89068	10400	AK027025	10401	P30533	10402	86	R.norvegicus mRNA encoding 45kDa protein which binds to heyman nephritis antigen gp330		Z11995cds RN45KDB R.norvegicus mRNA encoding 45kDa protein which binds to heyman nephritis antigen gp330	INTRACELLULAR AND ASSOCIATED WITH CELL SURFACE RECEPTORS.	Alpha-2-macroglobulin receptor-associated protein precursor(Alpha-2-MRAP) (Low density lipoprotein receptor-related protein-associated protein 1) (RAP) (GP330-binding 45 kDa protein) (Fragment).

Table 2.

Z11995	10403	Q99068	10404	AK027025	10405	P30533	10406	86	R.norvegicus mRNA encoding 45kDa protein which binds to heyman nephritis antigen gp330	Z11995cds RN45KDB R.norvegicus mRNA encoding 45kDa protein which binds to heyman nephritis antigen gp330	INTRACELL ULAR AND ASSOCIATE D WITH CELL SURFACE RECEPTOR S.	Alpha-2- macroglobulin receptor- associated protein precursor(Alpha- 2-MRAP) (Low density lipoprotein receptor-related protein- associated protein 1) (RAP) (GP330-binding 45 kDa protein) (Fragment).
Z11995	10407	Q99068	10408	AK027025	10409	P30533	10410	86	ALPHA-2- MACROGLOB ULIN RECEPTOR- ASSOCIATED PROTEIN PRECURSOR	Z11995cds RN45KDB R.norvegicus mRNA encoding 45kDa protein which binds to heyman nephritis antigen gp330	INTRACELL ULAR AND ASSOCIATE D WITH CELL SURFACE RECEPTOR S.	Alpha-2- macroglobulin receptor- associated protein precursor(Alpha- 2-MRAP) (Low density lipoprotein receptor-related protein- associated protein 1) (RAP) (GP330-binding 45 kDa protein) (Fragment).
Z12158	10411	CAA78 146	10412	NIM_0002 84	10413	P08559	10414	95	Pyruvate dehydrogenas e E1 alpha form 1 subunit	Z12158cds RRPDIHYE1A R.rattus pyruvate dehydrogenase E1 alpha form 1 subunit		

Z12158	10415	CAA78146	10416	NM_000284	10417	P08559	10418	95	Pyruvate dehydrogenase E1 alpha form 1 subunit	Z12158cds RRPDHYE1A R.rattus pyruvate dehydrogenase E1 alpha form 1 subunit	
Z18877	10419	Q05881	10420	D00068	10421	Q86J61	10422	65	R.norvegicus mRNA for 2'5' oligoadenylate synthetase	Z18877 R.norvegicus mRNA for 2 5 oligoadenylate synthetase /cds=(89,1145) /gb=Z18877 /gi=56789 /ug=Rn.10383 /len=1421	2'-5'-oligoadenylate synthetase 1 (EC 2.7.7.-) (2-5'oligo(A)synthetase 1) (2-5A synthetase 1).
Z19552	10423	P41516	10424	AK024080	10425	P11388	10426	91.3	Topoisomerase (DNA) II alpha	Z19552cds RNDNATP1I R.norvegicus mRNA for DNA topoisomerase II	"DNA topoisomerase II, alpha isozyme (EC 5.99.1.3)." Nuclear.
Z28072	10427	CAA82313	10428	L21898	10429	Q02817	10430	63	Mucin	Z28072cds RNIMUCINR R.norvegicus (Sprague Dawley) mRNA for mucin	
Z35664	10431	Q63408	10432	AB002360	10433	O15088	10434	88	R.norvegicus mRNA for Ost oncogene	Z35664 R.norvegicus mRNA for Ost oncogene /cds=(591,3208) /gb=Z35664 /gi=607178 /ug=Rn.10388 /len=4354	Cytoplasmic. Guanine nucleotide exchange factor DBS (DBL's big sister) (MCF2transforming sequence-like protein) (OST oncogene) (Fragment).

Table 2.

Z35654	10435	Q63406	10436	AB002360	10437	O15068	10438	88	R.norvegicus mRNA for Ost oncogene	Z35654 R.norvegicus mRNA for Ost oncogene /cds=(591,3209) /gb=Z35654 /gi=607178 /ug=Rn.10386 /len=4354	Cytoplasmic.	Guanine nucleotide exchange factor DBS (DBL's big sister) (MCF2transforming sequence-like protein) (OST oncogene) (Fragment).
Z36276	10439	Q64595	10440	X94612	10441	Q13237	10442	88.68	cGMP dependent protein kinase type II	Z36276 R.norvegicus (Sprague-Dawley) GK II mRNA for cGMP dependent protein kinase II /cds=(47,2335) /gb=Z36276 /gi=556688 /ug=Rn.10443 /len=2890		cGMP-dependent protein kinase 2 (EC 2.7.1.37) (CGK 2) (cGKII) (Type I cGMP-dependent protein kinase).
Z36944	10443	P51794	10444	X77187	10445	P51793	10446	98	Putative chloride channel (similar to Mm Clcn4-2)	Z36944cds RNCHCHAMP R.norvegicus mRNA for putative chloride channel	Integral membrane protein.	Chloride channel protein 4 (ClC-4).
Z36980	10447	P80254	10448	NM_001355	10449	P30046	10450	74	D-dopachrome tautomerase.	Z36980 R.norvegicus mRNA for D-dopachrome tautomerase /cds=(76,432) /gb=Z36980 /gi=885881 /ug=Rn.3464 /len=610	Cytoplasmic.	D-dopachrome tautomerase.
Z36980	10451	P80254	10452	NM_001355	10453	P30046	10454	74	D-dopachrome tautomerase.	Z36980 R.norvegicus mRNA for D-dopachrome tautomerase /cds=(76,432) /gb=Z36980 /gi=885881 /ug=Rn.3464 /len=610	Cytoplasmic.	D-dopachrome tautomerase.
Z46614	10455	CAA86587	10456	XM_004967		XP_004967		95	caveolin	Z46614cds RNCAVLN R.norvegicus mRNA for caveolin		
Z46882	10457	CAA86581	10458	NM_001386	10459	Q18555	10460	96	TOAD-64	Z46882cds RRTOAD64 R.rattus mRNA for TOAD-64		

Table 2.

Z48444	10461	CAA88 359	10462	AK023480	10463	NP_001 101	10464	91.68	disintegrin- metalloprotea se			Z48444cds RNDIGMETP R.norvegicus mRNA for disintegrin-metalloprotease
Z49761	10465	CAA89 831	10466	NM_0061 20	10467	P28087	10468	84.23	RT1.Ma			Z49761 R.norvegicus mRNA for RT1.Ma /cds=(23,805) /gb=Z49761 /gi=1296988 /ug=Rn.11298 /len=1049
Z50144	10469	NP_058 889	10470	NM_0162 28	10471	NP_057 312	10472	85.54	Kynurenine aminotransfer ase II	NM_01719 3		Z50144 R.norvegicus mRNA for kynurenine/alpha-aminoadipate aminotransferase /cds=(112,1389) /gb=Z50144 /gi=1050751 /ug=Rn.11133 /len=1807
Z54212	10473	P54848	10474	NM_0014 23	10475	P54849	10476	66	Epithelial membrane protein 1	NM_01284 3		Z54212 R.norvegicus mRNA for epithelial membrane protein-1 /cds=(14,596) /gb=Z54212 /gi=1150558 /ug=Rn.10242 /len=981
Z75029	10477	Q07439	10478	M24743	10479	I59139		96	Heat shock protein 70-1			Z75029 R.norvegicus hsp70.2 mRNA for heat shock protein 70 /cds=(0,37) /gb=Z75029 /gi=1483577 /ug=Rn.1950 /len=707
Z78279	10480	CAB01 633	10481	Y15916	10482	P02452	10483	97.6	Collagen alpha1 type I	U75405		Z78279 R.norvegicus mRNA for collagen alpha1 type I /cds=(0,4361) /gb=Z78279 /gi=2894105 /ug=Rn.2953 /len=5721
Z78279	10484	CAB01 633	10485	Y15916	10486	P02452	10487	97.6	Collagen alpha1	M27207		Z78279 R.norvegicus mRNA for collagen alpha1 type I /cds=(0,4361) /gb=Z78279 /gi=2894105 /ug=Rn.2953 /len=5721
Z78279	10488	CAB01 633	10489	Y15916	10490	P02452	10491	97.6	Collagen alpha1 type I			Z78279 R.norvegicus mRNA for collagen alpha1 type I /cds=(0,4361) /gb=Z78279 /gi=2894105 /ug=Rn.2953 /len=5721
Z83757	10492	P16310	10493	X06562	10494	P10912	10495	89.19	Growth hormone receptor	NM_01709 4		Z83757mRNA RINGHR3UTR R.norvegicus mRNA for growth hormone receptor, 3' UTR

Epithelial  
membrane  
protein-1 (EMP-  
1) (Tumor-  
associated  
membraneprotein).Integral  
membrane  
protein.Growth  
hormone  
receptor  
precursor (GH  
receptor)  
(Serum  
bindingprotein).Type I  
membrane  
protein.

Table 2.

Z83757	10496	P16310	10497	X06562	10498	P10912	10499	89.19	Growth hormone receptor	NIM_017094	Z83757 mRNA RNHR3UTR R.norvegicus mRNA for growth hormone receptor, 3' UTR	Type I membrane protein.	Growth hormone precursor (GH receptor) (Serum binding protein).
Z96106	10500	CAB09536	10501	XM_004743	XP_004743	92	potassium channel r-ERG				Z96106 Rattus norvegicus mRNA for potassium channel r-ERG /cds=(0,3491) /gb=Z96106 /gi=2190504 /ug=Rn.10970 /len=3889		
AB000280	10502	g2208839	10503	S76203	10504	Q16348	10505	23	Peptide/histidine transporter		AB000280 Rat mRNA for peptide/histidine transporter, complete cds /cds=(23,1741) /gb=AB000280 /gi=2208838 /ug=Rn.10770 /len=2730		
AB002406	10506	JC5521	10507	Y17829	10508	JE0334	10509	94.46	RuvB-like protein 1		AB002406 Rat mRNA for TIP49, complete cds /cds=(30,1400) /gb=AB002406 /gi=2225876 /ug=Rn.11023 /len=1587		
AB009999	10510	O35052	10511	U65887	10512	Q82903	10513	86.11	CDP-diacylglycerol synthase, (18 on d.s.)		AB009999 Rattus norvegicus mRNA for CDP-diacylglycerol synthase, complete cds	Integral membrane protein . CYTOPLASMIC ASPECT OF THE ENDOPLASMIC RETICULUM	Phosphatidate cytidylyltransferase 1 (EC 2.7.7.41) (CDP-diacylglycerol synthase 1) (CDP-diacylglycerol synthase 1) (CDS 1) (CTP:phosphatidate cytidylyltransferase 1)



Table 2.

AB0101 54	10514 62	BAA363	10515	AF387637	10516	P27448	10517	31	Sbk mRNA for serine/threonine protein kinase with SH3 ligand, expressed in hippocampus	AB010154 Rattus norvegicus PKN mRNA for serine/threonine protein kinase expressed in hippocampus, partial cds		
AB0134 54	10518	P24049	10519	X53777	10520	P18621	10521	99	ASI mRNA for mammalian equivalent of bacterial large ribosomal subunit protein L22	AB013454 Rattus norvegicus mRNA for NaP- 2 beta, complete cds	60S ribosomal protein L17 (L23) (Amino acid starvation- induced protein) (ASI).	
AB0137 32	10522	O70199	10523	AJ007702	10524	O60701	10525	89.76	UDP-glucose dehydrogenase e	AB013732 Rattus norvegicus mRNA for UDP- glucose dehydrogenase, complete cds /cds=(110,1591) /gb=AB013732 /gi=3133256 /ug=Rn.3967 /len=2318	UDP-glucose 6- dehydrogenase (EC 1.1.1.22) (UDP-Glc dehydrogenase) (UDP-GlcDH) (UDPGDH).	
NM_02 2505	10526	NP_071 950	10527	S82449	10528	Q8UQ21	10529	86.21	Rhesus blood group	AB015191 Rattus norvegicus mRNA for Rh blood group protein, complete cds		

Table 2.

AB0161 60	10530 4	Q9Z0U	10531	AJ225028	10532	Q8UBS5	10533	97	Gamma-aminobutyric acid (GABA) B receptor, 1	AB016160 Rattus norvegicus mRNA for GABAB receptor 1c, complete cds	INTEGRAL MEMBRANE PROTEIN. MOREOVER COEXPRESSION OF GABA-B-R1 AND GABA-B-R2 APPEARS TO BE A PREREQUISITE FOR MATURATION AND TRANSPORT OF GABA-B-R1 TO THE PLASMA MEMBRANE.	Gamma-aminobutyric acid type B receptor, subunit 1 precursor (GABA-Breceptor 1) (GABA-B-R1) (Gb1).
AF0008 42	10534	P41138	10535	X66924	10536	Q02535	10537	88.38	Inhibitor of DNA binding 3, dominant negative helix-loop-helix protein	AF000942 Rattus norvegicus Id3a mRNA, complete cds	Nuclear.	DNA-binding protein inhibitor ID-3.
AF0048 11	10538	P31977	10539	M69066	10540	P26038	10541	91.07	Moesin	AF004811 Rattus norvegicus moesin mRNA, complete cds /cds=(98,1831) /gb=AF004811 /gi=2218138 /ug=Rn.10773 /len=2099		
AF0075 54	10542	g22534 44		X52228	10543	Q16615	10544	87.68	Mucin1	AF007554 Rattus norvegicus mucin 1 (Muc1) mRNA, partial cds /cds=(0,224) /gb=AF007554 /gi=2253443 /ug=Rn.10779 /len=447		

Table 2.

AF0075183	10545	O35167	10546	NM_080539	10547	Q8NP24	10548	90.29	Collagen-like tail subunit (single strand of homotrimer) of asymmetric acetylcholinesterase	AF007583 Rattus norvegicus acetylcholinesterase-associated collagen (COLQ) mRNA, complete cds /cds=(45,1421) /gb=AF007583 /gi=2564193 /ug=Rn.10841 /len=2731	Acetylcholinesterase collagenic tail peptide precursor (ACHE Qsubunit) (Acetylcholinesterase-associated collagen).
AF020818	10549	AAC24980	10550	XM_009097	10551	XP_009087	10552	34	Progression elevated gene 3 protein	AF020818 Rattus norvegicus progression elevated gene 3 protein mRNA, complete cds	
AF026529	10553	O35414	10554	AJ303455	10555	Q9H169	10556	95.19	Stathmin-like-protein RB3	AF026529 Rattus norvegicus stathmin-like-protein splice variant RB3 mRNA, complete cds /cds=(120,650) /gb=AF026529 /gi=2585982 /ug=Rn.5658 /len=1305	Stathmin 4 (Stathmin-like protein B3) (RB3).
AF028784	10557	I56572		J04569	10558	P14136	10559	88	Glial fibrillary acidic protein	AF028784mRNA#1 Rattus norvegicus glial fibrillary acidic protein alpha (GFAP) gene, alternative spliced form, complete cds; and glial fibrillary acidic protein delta (GFAP) gene, alternative spliced form; partial cds	
AF029240	10560	g3150054		M20022	10561	P29401	10562	62	MHC class Ib RT1.S3 (RT1.S3) (21 on d.s.)	AF029240 Rattus norvegicus MHC class Ib RT1.S3 (RT1.S3) gene, complete cds /cds=(0,1091) /gb=AF029240 /gi=3150053 /ug=Rn.14674 /len=2653	
AF034237	10563	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			EST also named DD6A41 mRNA	AF034237 Rattus norvegicus DD6A4-1 mRNA, partial sequence	
AF034899	10564	JC5836	10565	L35475	10566	Q15062	10567	44	Olfactory receptor-like protein (SCR D-9)	AF034899 Rattus norvegicus olfactory receptor-like protein (SCR D-9) gene, complete cds /cds=(0,965) /gb=AF034899 /gi=3153224 /ug=Rn.14522 /len=1086	

Table 2.

AF0351 56	10588	Q54939	10569	U05659	10570	P37058	10571	81.84	Testicular 17- beta- hydroxysteroid dehydrogenase	AF035156 Rattus norvegicus testicular 17- beta-hydroxysteroid dehydrogenase mRNA, complete cds /cds=(21,841) /gb=AF035156 /gi=2826748 /ug=Rn.10895 /len=1111	Estradiol 17 beta- dehydrogenase 3 (EC 1.1.1.62) (17-beta-HSD 3)(Testicular 17- beta- hydroxysteroid dehydrogenase)
AF0390 85	10572	Q54980	10573	AJ002308	10574	O43760	10575	87	Synaptogyrin 2	AF039085 Rattus norvegicus cellugyrin mRNA, complete cds /cds=(153,857) /gb=AF039085 /gi=2773063 /ug=Rn.8682 /len=1108	Integral membrane protein.
NM_02 0082	10576	O55004	10577	BI480032	10578	NP_002 928	10579	87.13	Ribonuclease 4	AF041066 Rattus norvegicus ribonuclease 4 mRNA, complete cds /cds=(76,519) /gb=AF041066 /gi=2773352 /ug=Rn.22804 /len=546	Secreted.
AF1212 17	10580	P02466	10581	D21235	10582	P54725	10583	95.37	Procollagen, type I, alpha 2	AF050214 Rattus norvegicus type I pro-alpha 2 collagen-like mRNA sequence	Ribonuclease 4 precursor (EC 3.1.27.-) (RNase 4) (RL3).
AF0506 59	10584	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			Activity and neurotransmitt er-induced early gene 7 (ania-7)	AF050659UTR#1 Rattus norvegicus activity and neurotransmitter-induced early gene 7 (ania-7) mRNA, 3' UTR	Collagen alpha 2(I) chain precursor.
AF0506 63	10585	No Rat Protein Found.		AC009812	10586	No Human Protein Found.		86	Activity and neurotransmitt er-induced early gene 11 (ania-11)	AF050663UTR#1 Rattus norvegicus activity and neurotransmitter-induced early gene 11 (ania-11) mRNA, 3' UTR	

Table 2.

AF0533 12	10587	P97884	10588	U64187	10589	P78556	10590	85.29	Small inducible cytokine subfamily A20	AF053312 Rattus norvegicus CC chemokine ST38 precursor, mRNA, complete cds	Secreted.	Small Inducible cytokine A20 precursor (CCL20) (Macrophageinfi ammatory protein 3 alpha) (MIP-3-alpha) (Liver and activation- regulated chemokine) (CC chemokine LARC) (Beta chemokine exodus-1) (CCchemok
AF0587 91	10591	AAC14 180	10592	AB014532	10593	P41223	10594	87.13	Maternal G10 transcript	AF058791 Rattus norvegicus G10 protein homolog (edg2) mRNA, complete cds /cds=(184,618) /gb=AF058791 /gi=3064069 /ug=Rn.8172 /len=816		
AF0612 42	10595	Q8R1B 1	10596	AI005112	10597	Q9Y5J6	10598	96.34	Fracture callus 1	AF061242 Rattus norvegicus fracture callus 1 (FxC1) mRNA, complete cds	Mitochondrial inner membrane .	Mitochondrial import inner membrane translocase subunit TIM9 B(Fracture callus protein 1) (FxC1).
AF0773 54	10599	Q63617	10600	BC002528	10601	P34932	10602	93.17	Ischemia responsive 94 kDa protein (Irp94)	AF077354 Rattus norvegicus ischemia responsive 94 kDa protein (Irp94) mRNA, complete cds		
AF0805 68	10503	P19836	10604	D84307	10605	Q99447	10606	88.6	Phosphate cytidylyltransfe rase 2, ethanolamine	AF080568 Rattus norvegicus CTP:phosphoethanolamine cytidylyltransferase mRNA, complete cds		

Table 2.

AF08321 69	10807	O88656	10508	AI768321	10609	O15143	10610	92.74	Actin-related protein complex 1b (14 on d.s.)	AF083269 Rattus norvegicus p41-Arc mRNA, complete cds	AF083269 Rattus norvegicus p41-Arc mRNA, complete cds	ARP2/3 complex 41 kDa subunit (P41- ARC) (Actin- related protein 2/3complex subunit 1B).
AF0321 20	10611	Q9Z254	10612	AF028824	10613	O14908	10614	87.98	Regulator of G protein signaling 19	AF098817 Rattus norvegicus RGS-GAIP interacting protein GIPC mRNA, complete cds	CYTOPLAS MIC AND MEMBRANE- ASSOCIATE D.	GAIP C- terminus Interacting protein GIPC (RGS-GAIP interacting protai n) (GLUT1 C- terminal binding protein) (GLUT1C8P).
AF0915 61	10615	AAC64 584	10616	AF321237	10617	AAG452 06	10618	33	hP3 olfactory receptor	AF091561 Rattus norvegicus isolate AIV-LY1 olfactory receptor mRNA, partial cds		
AF0855 76	10619	AAC64 408	10620	AB000520	10621	BAA225 14	10622	85.26	APS protein	AF095576 Rattus norvegicus APS protein mRNA, complete cds		
NM_02 1852	10623	NP_068 624	10624	AF082085	10625	AAC786 08	10626	90.79	EH domain binding protein epsin 2	AF096269 Rattus norvegicus EH domain binding protein epsin 2 mRNA, complete cds		
NM_02 1688	10627	NP_067 718	10628	AF418270	10629	NP_055 742	10630	94.34	Membrane- associated guanylate kinase- Interacting protein	AF102853 Rattus norvegicus membrane- associated guanylate kinase-interacting protein 1 Maguin-1 mRNA, complete cds		
AJ0010 44	10631	g27645 85	10632	M33011	10633	P16422	10634	80.22	Protein phosphatase 1, regulatory (inhibitor) subunit 5	AJ001044cds RNEGP314H Rattus norvegicus mRNA for EGP-314 protein homologue		

Table 2.

AJ0048 58	10635	S18597	10638	X73039	10637	S34118	10638	88	SRY-box containing gene 11
AJ0051 13	10639	S06008	10640	D80000	10841	I54383		92.03	SMC (segregation of mitotic chromosomes 1)-like 1 (yeast)
AJ0118 11	10842	Q9Z1L1	10843	AJ011497	10644	O95471	10645	93	Claudin 7
AJ1319 02	10846	O55148	10847	AK057761	10848	O60881	10849	92.86	Growth arrest specific 7
AJ2233 55	10850	211823 2A	10851	BC015787	10852	Q8UBX3	10853	86.37	Rattus norvegicus mRNA for mitochondrial dicarboxylate carrier (43 on d.s.)
D00688	10654	BAA005 92	10655	NIM_0002 40	10856	P21397	10657	82	Monoamine oxidase A
D10392	10658	P32851	10659	BC003011	10660	Q16623	10661	92.7	Syntaxin A
D10587	10662	BAA014 44	10663	D12876	10664	Q14108	10665	82	85kDa sialoglycoprot ein (LGP85)
D10729	10666	BAA015 72	10667	XM_01687 9		XP_016 879		93	Proteasome subunit RC1
AJ004858 RNAJ4858 Rattus norvegicus mRNA for Sy-related HMG-box protein Sox11									
AJ005113 RNAJ5113 Rattus norvegicus mRNA for SMC-protein Molecular characterization of a rat heterochromatin associated SMC-protein									
AJ011811 RNO011832 Rattus norvegicus mRNA for claudin-8, clone RPCB40, partial									Integral membrane protein.
AJ131902 RNO131902 Rattus norvegicus mRNA for GAS-7 protein									Cytoplasmic.
AJ223355 RNAJ3355 Rattus norvegicus mRNA for mitochondrial dicarboxylate carrier									
D00688 RATMAOA Rat monoamine oxidase A gene, complete cds D10392 Rat mRNA for HPC-1 antigen, C- terminal /cds=(0,897) /gb=D10392 /gi=220776 /ug=Rn.9943 /len=2130									Membrane- bound.
D10587 RATLGP85 Rattus sp. mRNA for 85kDa sialoglycoprotein (LGP85), complete cds									
D10729 RATPSRC1 Rat mRNA for proteasome subunit RC1									
									Claudin-7 (Fragment).
									Growth-arrest- specific protein 7 (GAS-7).
									Syntaxin 1A (Synaptotagmin associated 35 kDa protein) (P35A)(Neuron- specific antigen HPC-1).

Table 2.

D10853	10668	P35433	10669	AA826427	10670	Q06203	10671	91.26	Amidophosphoribosyltransferase	D10853 RATATR Rat mRNA for amidophosphoribosyltransferase	Amidophosphoribosyltransferase precursor (EC 2.4.2.14) (Glutaminephosphoribosylpyrophosphate amidotransferase) (ATASE) (GPAT).
D12769	10872	Q01713	10673	NIM_001208	10674	Q13886	10675	91	BTE binding protein	D12769 RATBTEB Rattus norvegicus mRNA for BTE binding protein	Transcription factor BTEB1 (Basic transcription element binding protein 1) (BTE-binding protein 1) (GC box binding protein 1).
D13962	10876	Q07647	10677	M20681	10678	P11169	10679	83	Solute carrier family 2 A3 (neuron glucose transporter)	D13962 RATGLUT3 Rat mRNA for neuron glucose transporter	Solute carrier family 2, facilitated glucose transporter, member 3 (Glucose transporter type 3, brain).



Table 2.

D14441	10680	Q05175	10681	AF039656	10682	P80723	10683	72	Brain acidic membrane protein	D17809	D14441 RATNAP22 Rat NAP-22 mRNA for acidic membrane protein of rat brain, complete cds	MEMBRANE ANCHORED WITH THE MEMBRANE S OF "GROWTH CONES" THAT FORM THE TIPS OF ELONGATING AXONS.	Brain acid soluble protein 1 (BASP1 protein) (Neuronal axonal membrane protein NAP-22).
NM_022860	10684	Q10468	10685	M83651	10686	Q00973	10687	87.83	Beta-4N-acetylgalactosaminyltransferase	D17809	D17809 Rat mRNA for beta-4N-acetylgalactosaminyltransferase, complete cds /cds=(30,1631) /gb=D17809 /gi=497841 /ug=Rn.10119 /len=2186	Type II membrane protein. Golgi.	Beta-1,4 N-acetylgalactosaminyltransferase (EC 2.4.1.92) ((N-acetylneuraminy)-galactosylglucosylceramide) (GM2/GD2 synthase)(GalN Ac-T).
D26564	10688	Q63692	10689	NM_016742	10690	Q61081	10691	84	Rattus norvegicus mRNA, similar to cdc37		D26564 RATCD37 Rattus norvegicus mRNA, complete cds, similar to cdc37	Cytoplasmic.	Hsp80 co-chaperone Cdc37 (Hsp80 chaperone protein kinase-targeting subunit) (p50Cdc37).

Table 2.

D29846	10892	Q64244	10893	M34461	10894	P28807	10695	83.33	CD38 antigen (ADP-ribosyl cyclase / cyclic ADP- ribose hydrolase)	D29846 Rat mRNA for ADP-ribosyl cyclase / cyclic ADP-ribose hydrolase (CD38), complete cds /cds=(10,921) /gb=D29846 /gi=497839 /ug=Rn.11414 /len=2248	Type II membrane protein.	ADP-ribosyl cyclase 1 (EC 3.2.2.5) (Cyclic ADP-ribose hydrolase 1)(CADPr hydrolase 1) (CD38 homolog) (CD38H).
D29766	10896	Q63767	10697	AJ242987	10698	P56945	10699	91	V-crk- associated tyrosine kinase substrate	D29766Poly_ASites#1 RATP130CAS Rattus norvegicus mRNA for Crk-associated substrate, p130, complete cds	FOCAL ADHESIONS AND STRESS FIBERS. UNPHOSPH ORYLATED FORM LOCALIZES IN THE CYTOPLAS M AND CAN MOVE TO THE MEMBRANE UPON TYROSINE PHOSPHOR YLATION.	CRK-associated substrate (P130CAS) (Breast cancer anti- estrogenresista nce 1 protein).
D31874	10700	P53670	10701	BC013051	10702	P53671	10703	91.03	LIM motif- containing protein kinase 2	D31874 Rat mRNA for LIMK-2a, complete cds /cds=(62,1978) /gb=D31874 /gi=1684612 /ug=Rn.11013 /len=3455	Cytoplasmic.	LIM domain kinase 2 (EC 2.7.1.-) (LIMK- 2).

Table 2.

D37880	10704	P55146	10705	U02566	10706	Q06418	10707	88.67	Bruton agammaglobu- linemia tyrosine kinase (32 on d.s.)	D37880 Rat mRNA for Sky, complete cds /cds=(25,2667) /gb=D37880 /gi=1498195 /ug=Rn.8883 /len=3726	Type I membrane protein.	Tyrosine-protein kinase receptor TYRO3 precursor (EC 2.7.1.112)(Tyros- ine-protein kinase SKY).
D38222	10708	g10548 35	10709	L18983	10710	Q16849	10711	86	Tyrosine phosphatase- like protein 1A- 2a	D38222 RATPDPTPLP Rat mRNA for protein tyrosine phosphatase-like protein, complete cds		
D38380	10712	P12346	10713	M12530	10714	P02787	10715	68	Transferrin	D38380 RATTa Rattus norvegicus mRNA for transferrin, complete cds	Secreted.	Serotransferrin precursor (Transferrin) (Siderophilin) (Beta-1- metabinding globulin).
D38468	10716	S06084	10717	D86043	10718	JC5287	10719	66	Protein tyrosine phosphatase, non-receptor type substrate 1 (SHP substrate 1)	D38468 Rattus norvegicus mRNA for BIT, complete cds /cds=(288,1817) /gb=D38468 /gi=2190165 /ug=Rn.22662 /len=2355		
D45249	10720	BAA082 06	10721	NIM_0062 63	10722	Q06323	10723	85	Proteasome activator rPA28 subunit alpha	D45249 RATPRPA28B Rat mRNA for proteasome activator rPA28 subunit alpha, complete cds		
D49363	10724	BAA083 59	10725	AY026784	10726	AAK019 39	10727	87	perchloric acid soluble protein	D49363 RATPSP1 Rat mRNA for perchloric acid soluble protein, complete cds		

Table 2.

D49847	10728	P29354	10729	BC000631	10730	P29354	10731	83.36	Rat mRNA for Ash-e	D49847 Rat mRNA for Ash-e, complete cds /cds=(144,323) /gb=D49847 /gi=914860 /ug=Rn.3360 /len=1739	Growth factor receptor-bound protein 2 (GRB2 adapter protein)(SH2/SH 3 adapter GRB2) (ASH protein).
D50558	10732	BAA23470	10733	U04343	10734	P42081	10735	82.52	Membrane glycoprotein	D50558 Rattus rattus mRNA for membrane glycoprotein, complete cds	
D63665	10736	Q63371	10737	X97058	10738	Q15077	10739	84.8	Novel G protein-coupled P2 receptor	D63665 Rat mRNA for novel G protein-coupled P2 receptor, complete cds /cds=(439,1425) /gb=D63665 /gi=1066007 /ug=Rn.10671 /len=1922	P2Y purinoceptor 6 (P2Y6).
D63888	10740	BAA22223	10741	NM_005941	10742	P51512	10743	90	MT3-MMP-del	D63888 Rattus sp. mRNA for MT3-MMP-del, complete cds	Integral membrane protein.
D78613	10744	BAA11433	10745	XM_005781		XP_005781		80	Protein tyrosine phosphatase epsilon M	D78613 RATPTPEB Rat mRNA for protein tyrosine phosphatase epsilon M, partial cds	
D82074	10746	BAA11535	10747	XM_002573	10748	XP_002573	10749	85	BHF-1 (12 on d.s.)	D82074 RATBHF1MA Rattus sp. mRNA for BHF-1, complete cds	
D83948	10750	P70601	10751	AK000962	10752	g1469167	10753	93.27	S1-1 protein from liver	D83948mRNA Rat adult liver mRNA for S1-1 protein, complete cds /cds=UNKNOWN /gb=D83948 /gi=1866639 /ug=Rn.8822 /len=3123	RNA-binding protein 10 (RNA binding motif protein 10) (S1-1 protein).

Table 2.

D85188	10754	O35547	10755	NIM_0229 77	10756	O60488	10757	91.08	Acyl-CoA synthetase (36 on d.s.)	D85188 Rattus norvegicus mRNA for Acyl- CoA synthetase, complete cds /cds=(185,2197) /gb=D85188 /gi=2392022 /ug=Rn.2366 /len=4862	Long-chain-fatty- acid-CoA ligase 4 (EC 6.2.1.3) (Long-chain acyl- CoA synthetase 4) (LACS 4).
D86557	10758	BAA188 80	10759	NIM_0204 39	10760	NP_065 172	10761	98	Protein Kinase	D86557 Rattus norvegicus mRNA for Protein Kinase, partial cds	
D87240	10762	O35096	10763	AJ285747	10764	Q16875	10765	94.86	RB2K1 mRNA for fructose-6- phosphate 2- kinase/fructos e-2,6- biphosphatas e	D87240 Rattus norvegicus RB2K1 mRNA for fructose-6-phosphate 2-kinase/fructose-2,6- biphosphatase, complete cds /cds=(405,2072) /gb=D87240 /gi=2317651 /ug=Rn.10791 /len=2148	6-phosphofructo- 2- kinase/fructose- 2,6- biphosphatase 3 (6PF-2-K/Fru- 2,6-P2ASE brain-type isozyme) (RB2K) [Includes: 6- phosphofructo-2- kinase (EC 2.7.1.105); Fructose-2,6- biphosphatase (EC 3.1.3.46)].
D87515	10766	O09175	10767	AL390139	10768	Q9H4A4	10769	92.44	Aminopeptida se B	D87515 Rat mRNA for aminopeptidase-B, complete cds /cds=(5,1954) /gb=D87515 /gi=1754514 /ug=Rn.10979 /len=2192	Aminopeptidase B (EC 3.4.11.6) (Ap-B) (Arginyl aminopeptidase ) (Arginine aminopeptidase ) (Cytosol aminopeptidase IV).

Secreted.

Table 2.

D88250	10770	JC8554	10771	J04080	10772	Q9UCV3	10773	76	Serine protease	D88250 Rattus norvegicus mRNA for serine protease, complete cds /cds=(246,2330) /gb=D88250 /gi=3080541 /ug=Rn.4037 /len=2808	Membrane- associated.	Phospholipase D2 (EC 3.1.4.4) (PLD 2) (Choline phosphatase 2)(Phosphatidyl choline- hydrolyzing phospholipase D2) (PLD1C) (rPLD2).
D88672	10774	P70498	10775	AF038441	10776	O14939	10777	88.04	Phospholipase D	D88672 Rat mRNA for phospholipase D, complete cds /cds=(336,3137) /gb=D88672 /gi=2077942 /ug=Rn.9798 /len=4562		
D89340	10778	O55096	10779	AK021449	10780	Q9NY33	10781	89.98	Dipeptidyl peptidase III	D89340 Rattus norvegicus mRNA for dipeptidyl peptidase, complete cds /cds=(14,2487) /gb=D89340 /gi=2832805 /ug=Rn.10902 /len=2615	Cytoplasmic.	Dipeptidyl- peptidase III (EC 3.4.14.4) (DPP II) (Dipeptidylamin opeptidase III) (Dipeptidyl arylamidase III).
D90404	10782	P80067	10783	AA298068	10784	S66504		96.07	Cathepsin C (dipeptidyl peptidase I)	D90404 RATCATC Rat mRNA for cathepsin C	Lysosomal.	Dipeptidyl- peptidase I precursor (EC 3.4.14.1) (DPP- I) (DPP I)(Cathepsin C) (Cathepsin J) (Dipeptidyl transferase).

Table 2.

E00444	10785	No Rat Protein Found.	J03909	10786	P13284	10787	72	ESTs, Moderately similar to GILT (GAMMA-INTERFERON INDUCIBLE PROTEIN IP-30) [H.sapiens]	E00444cds DNA coding for gamma-interferon
E01789	10788	CAA28 035	10789	10780	Q8UE49	10791	93	Protein kinase C beta-II type	E01789cds cDNA sequence coding for rat C-kinase type-II (beta-2)
E13732	10782	NP_065 417	10783	XM_03039 5	XP_030 395		80	CC chemokine receptor protein	E13732cds cDNA encoding rat CC chemokine receptor protein
J00735	10794	NP_036 891	10795	NM_0218 70	P02679	10797	76	fibrinogen gamma chain-b	J00735 RATFBRGB rat fibrinogen gamma chain-b mma
J02612	10798	P08430	10799	AV683870	P22310	10801	88.71	UDP-glucuronosyltransferase 1 family, member 1	J02612mRNA RATUDPGT Rat UDP-glucuronosyltransferase mRNA, complete cds
									Microsomal.
									UDP-glucuronosyltransferase 1-6 precursor, microsomal (EC 2.4.1.17)(UDPGT) (UGT1*6) (UGT1-06) (UGT1.6) (UGT1A6) (A1) (P-nitrophenolspecific).

Table 2.

NM_017000	10802	P05982	10803	NM_000903	10804	P15559	10805	81	Diaphorase (NADH/NADP H)	J02679	J02679 Rat NAD(P)H-menadi- one oxidoreductase mRNA, complete cds /cds=(74,898) /gb=J02679 /gi=205741 /ug=Rn.11234 /len=1501	Cytoplasmic	NAD(P)H dehydrogenase [quinone] 1 (EC 1.6.99.2) (Quinone reductase 1)(QR1) (DT- diaphorase) (DTD) (Azoreductase) (Phylloquinone reductase)(Men- adione reductase).
J02749	10806	P21775	10807	X12966	10808	P09110	10809	86	Acetyl-CoA acyltransferas e, 3-oxo acyl- CoA thiolase A, peroxisomal	J02749 Rat peroxisomal 3-ketoacyl-CoA thiolase mRNA, complete cds /cds=(25,1299) /gb=J02749 /gi=205086 /ug=Rn.8913 /len=1580	Peroxisomal	3-ketoacyl-CoA thiolase A, peroxisomal precursor (EC 2.3.1.16) (Beta- ketothiolase A) (Acetyl-CoA acyltransferase A) (Peroxisomal 3-oxoacyl-CoA thiolase A).	
J03624	10810	P10683	10811	M77140	10812	P22466	10813	90.2	Galanin	J03624 Rat galanin (a neuropeptide) mRNA, complete cds /cds=(144,518) /gb=J03624 /gi=204236 /ug=Rn.8929 /len=699	Secreted.	Galanin precursor [Contains: Galanin; Galanin message- associatedpepti- de (GMAP)].	



Table 2.

J04187	10814	P15149	10815	U22028	10816	Q16696	10817	67	Cytochrome P450 IIA2 (see 257 on this sheet)	J04187 Rat cytochrome P-450 IIA2 protein (CYP2A2) mRNA, complete cds /cds=(9,1487) /gb=J04187 /gi=204901 /ug=Rn.9867 /len=2259	Membrane-bound. Endoplasmic reticulum.	Cytochrome P450 2A2 (EC 1.14.14.1) (CYP1A2) (Testosterone 15-alpha-hydroxylase) (P450-UT-4).
J05022	10818	P20717	10819	BC009701	10820	Q8Y2J8	10821	88.67	Peptidyl arginine deiminase, type II	J05022 Rat peptidylarginine deiminase mRNA /cds=(60,2057) /gb=J05022 /gi=205959 /ug=Rn.2642 /len=4507		Protein-arginine deiminase type II (EC 3.5.3.15) (Peptidylarginine deiminase II).
NM_012515	10822	P16257	10823	XM_040167	XP_040167			79	Benzodiazepine receptor (peripheral)	J05122 Rat peripheral-type benzodiazepine receptor (PKBS) mRNA, complete cds /cds=(34,543) /gb=J05122 /gi=206161 /ug=Rn.1820 /len=781	MITOCHONDRIAL; INTEGRAL MEMBRANE PROTEIN.	Peripheral-type benzodiazepine receptor (PBR) (PKBS) (Mitochondrial benzodiazepine receptor).
J05210	10824	P16638	10825	X64330	10826	P53396	10827	90.47	ATP citrate lyase (17 on d.s.)	J05210 Rat ATP citrate-lyase mRNA, complete cds /cds=(72,3374) /gb=J05210 /gi=949989 /ug=Rn.996 /len=4269	Cytoplasmic.	ATP-citrate (pro-S)-lyase (EC 4.1.3.8) (Citrate cleavage enzyme).
J05499	10828	P28492	10829	AK000467	10830	Q9U132	10831	89.45	L-glutamine amidohydrolase	J05499 Rattus norvegicus L-glutamine amidohydrolase mRNA, complete cds /cds=(131,1738) /gb=J05499 /gi=1196813 /ug=Rn.10202 /len=2225	Mitochondrial	Glutaminase, liver isoform, mitochondrial precursor (EC 3.5.1.2) (GLS)(L-glutamine amidohydrolase) (L-glutaminase).

Table 2.

NM_02 0075	10832	Q07205	10833	NM_0019 69	10834	P55010	10835	80	Eukaryotic Initiation factor 5 (eIF-5) (37 on d.s.)	K01677	K01677 Rat brain-specific identifier sequences (ID) clone p1B337 /cds=UNKNOWN /gb=K01677 /gi=208784 /ug=Rn.3508 /len=1000	Eukaryotic translation Initiation factor 5 (eIF-5).
K02815	10836	S04363		M17847	10837	P01907	10838	87.59	RT1, B- 1(alpha) chain of integral membrane protein		K02815 Rat MHC RT1-B region class II (la antigen) A-alpha glycoprotein mRNA (haplotype Rt1-u) /cds=(0,390) /gb=K02815 /gi=205407 /ug=Rn.8100 /len=681	
L00111	10839	761799 A		X15943	10840	P01258	10841	78	Calcitonin		L00111 unknownS536 Rat calcitonin gene /cds=(9,395) /gb=L00111 /gi=457369 /ug=Rn.10335 /len=420	
L02896	10842	P35053	10843	X54232	10844	P35052	10845	87.92	Glypican 1		L02896 Rattus norvegicus major heparan sulfate proteoglycan (glypican) mRNA, complete cds /cds=(221,1897) /gb=L02896 /gi=204424 /ug=Rn.7044 /len=3497	Glypican-1 precursor (HSPG M12).  Attached to the membrane by a GPI- anchor.
L03201	10848	Q02765	10847	M90696	10848	P25774	10849	76	Cathepsin S		L03201 Rattus norvegicus cathepsin S mRNA, complete cds /cds=(27,1019) /gb=L03201 /gi=203649 /ug=Rn.11347 /len=1330	Cathepsin S precursor (EC 3.4.22.27).  Lysosomal.
L07925	10850	Q03386	10851	AB037729	10852	Q12967	10853	90.5	Rai guanine nucleotide dissociation stimulator		L07925 RATGND5A Rattus rattus guanine nucleotide dissociation stimulator for a ras- related GTPase mRNA, complete cds	Rai guanine nucleotide dissociation stimulator (RaiGEF) (RaiGDS).
L10336	10854	Q08326	10855	S78873	10856	P47224	10857	100	ESTs, Highly similar to MSS4 GUANINE NUCLEOTIDE EXCHANGE FACTOR MSS4 [R.norvegicus]		L10336 Rattus rattus guanine nucleotide- releasing protein (mss4) mRNA, complete cds /cds=(723,1094) /gb=L10336 /gi=204449 /ug=Rn.11302 /len=2490	

Table 2.

L12025	10858	AAB807 67	10859	M24407	10860	P15151	10861	80.17	Tumor-associated glycoprotein pE4 - human poliovirus receptor.	L12025 Rattus norvegicus tumor-associated glycoprotein E4 (Tage4) mRNA, complete cds /cds=(65,1303) /gb=L12025 /gi=2506084 /ug=Rn.10877 /len=2171	
L12382	10862	P16587	10863	M33384	10864	P16587	10865	100	ADP-ribosylation factor 3	L12382 Rattus norvegicus ADP-ribosylation factor 3 mRNA, complete cds /cds=(186,731) /gb=L12382 /gi=438865 /ug=Rn.9784 /len=826	ADP-ribosylation factor 3.
L12384	10866	P26437	10867	B1837414	10868	P26437	10869	95.06	ADP-ribosylation factor 5	L12384 Rattus norvegicus ADP-ribosylation factor 5 mRNA, complete cds /cds=(94,636) /gb=L12384 /gi=438869 /ug=Rn.10874 /len=1058	ADP-ribosylation factor 5.
L14680	10870	I53744	10871	M13985	10872	P10415	10873	93.55	B cell lymphoma 2 associated oncogene	L14680 Rattus norvegicus bcl-2 mRNA, complete cds /cds=(234,944) /gb=L14680 /gi=408946 /ug=Rn.9936 /len=1179	
L17318	10874	B48013	10875	No human homolog found.		P24928	10876	36	Proline-rich proteoglycan (PRPG2)	L17318 Rattus norvegicus proline-rich proteoglycan (PRPG2) mRNA, complete cds /cds=(21,908) /gb=L17318 /gi=310199 /ug=Rn.9870 /len=1011	
L19112	10877	g31014 9		U11814	10878	P21802	10879	97.74	Rat (clone R2(A3B)) heparin-binding fibroblast growth factor receptor 2 (extracellular domain) mRNA, partial cds	L19112 Rat (clone R2(B3C)) heparin-binding fibroblast growth factor receptor 2 (extracellular domain) mRNA, partial cds /cds=(0,1061) /gb=L19112 /gi=310150 /ug=Rn.12732 /len=1062	

Table 2.

NM_03 1834	10880	P17988	10881	XM_051063	XP_051063	73	Minoxidil sulfotransferase	L18998	L19998 Rat minoxidil sulfotransferase mRNA, complete cds /cds=(77,952) /gb=L19998 /gi=310178 /ug=Rn.1507 /len=1227	Cytoplasmic.	Aryl sulfotransferase (EC 2.8.2.1) (Phenol sulfotransferase ) (PST- 1)(Sulfokinase) (Aryl sulfotransferase IV) (ASTIV) (Tyrosine- estersulfotransf- erases) (Minoxidil sulfotransferase ).
L21192	10882	A26984	10883	S66541	10884	84	Growth accentuating protein 43	L26292	L21192 Rat GAP-43 gene /cds=(56,736) /gb=L21192 /gi=310121 /ug=Rn.10828 /len=1325		
L23148	10885	P41135	10886	AA689598	10887	91.74	Inhibitor of DNA binding 1, helix-loop- helix protein (splice variation)		L23148 Rattus norvegicus Inhibitor of DNA- binding, splice variant 1d1.25, complete cds /cds=(81,555) /gb=L23148 /gi=516116 /ug=Rn.2113 /len=1124	Nuclear.	DNA-binding protein inhibitor ID-1.
AF3905 46	10888	AAK733 55	10889	AF105036	10890	90	Rattus norvegicus (clone 180) FSH-regulated protein mRNA		L26292 RATFSHREG Rattus norvegicus (clone 59) FSH-regulated protein mRNA		
NM_03 1578	10892	NP_113 767	10893	U48296	10894	95.4	Protein tyrosine phosphatase 4a1	L27843	L27843 RATPRL1NP Rat tyrosine phosphatase (PRL-1) mRNA, complete cds		

Table 2.

L29281	10896	S50216	10897	M35863	10898	P19525	10899	62	Protein kinase, Interferon-Inducible double stranded RNA dependent
L29573	10900	I59558		M65105	10901	P23975	10902	88	Solute carrier family 6 (neurotransmitter transporter, noradrenalin), member 2
L32591	10903	P48317	10904	M60974	10905	P24522	10906	95	Gadd45 (3, 44 on d.s.)
L34821	10907	P51650	10908	L34820	10909	P51649	10910	84.34	Succinic semialdehyde dehydrogenase
M13962	10911	P08760	10912	BM01959 <sub>7</sub>	10913	P08236	10914	88.96	Glucuronidase, beta
									Lysosomal.
L29281 Rattus norvegicus Initiation factor-2 kinase (eIF-2a) mRNA, complete cds /cds=(150,1691) /gb=L29281 /gi=468372 /ug=Rn.10022 /len=3808									
L29573 RATNOREPIN Rat NaCl-dependent norepinephrine transporter mRNA, partial cds									
L32591 mRNA RATGADD45X Rattus norvegicus GADD45 mRNA, complete cds									Growth arrest and DNA-damage-Inducible protein GADD45 alpha (DNA-damage Inducible transcript 1) (DDIT1).
L34821 Rat succinate-semialdehyde dehydrogenase (SSADH) mRNA, 3' end /cds=(0,1468) /gb=L34821 /gi=556394 /ug=Rn.10070 /len=1731									Succinate semialdehyde dehydrogenase (EC 1.2.1.24) (NAD(+)-dependent succinate semialdehyde dehydrogenase)
M13962 mRNA#2 Rat beta-glucuronidase mRNA, complete cds /cds=UNKNOWN /gb=M13962 /gi=204328 /ug=Rn.3692 /len=2472									Beta-glucuronidase precursor (EC 3.2.1.31).

Table 2.

Y00480	109480	10915	CAA68 540	10916	NM_0191 11	10917	P01903	10918	70	Rat (diabetic BB) MHC class II alpha chain RT1.D alpha (u) (11 on d.s.)	M15562	M15562 Rat MHC class II RT1.u-D-alpha chain mRNA, 3' end /cde=(0.437) /gb=M15562 /gi=205435 /ug=Rn.4200 /len=805			
M15880	10919	P07808	10920	K01911	10921	P01303	10922	88.66	Neuropeptide Y	Neuropeptide Y precursor (NPY).		M15880 Rat neuropeptide Y mRNA, complete cds /cde=(68,364) /gb=M15880 /gi=205756 /ug=Rn.9714 /len=539	Secreted.		
M15944	10923	P07861	10924	X07166	10925	P08473	10926	91.18	Membrane metallo- endopeptidase (neutral endopeptidase /enkephalinas e) (27 on d.s.)	Type II membrane protein.		M15944 Rat enkephalinase (neutral endopeptidase) mRNA /cde=(78,2330) /gb=M15944 /gi=204031 /ug=Rn.11165 /len=3243			Neprilysin (EC 3.4.24.11) (Neutral endopeptidase) (NEP)(Enkephal inase).
M19359	10927	P10065	10928	M17315	10929	P11844	10930	83	Gamma-A- crystallin gene			M19359mRNA#2 Rat gamma-crystallin gene cluster, encoding gamma-A (gamma 1-1), gamma-B (gamma 1-2), gamma-C (gamma 2- 1), gamma-D (gamma 2-2), and gamma-E (gamma 3-1) crystallins, complete cds /cde=(27,551) /gb=M19359 /gi=203626 /ug=Rn.10805 /len=618			
M22756	10931	P19234	10932	M22538	10933	P19404	10934	89.72	24-kDa subunit of mitochondrial NADH dehydrogenas e			M22756 Rat 24-kDa subunit of mitochondrial NADH dehydrogenase mRNA, 3' end /cde=(0,725) /gb=M22756 /gi=205627 /ug=Rn.11092 /len=771	Matrix and cytoplasmic side of the mitochondrial inner membrane.		NADH- ubiquinone oxidoreductase 24 kDa subunit, mitochondrial precursor(EC 1.6.5.3) (EC 1.6.99.3) (Fragment).
M23566	10935	A26122	10936	XM_04363 2		MAHU	10937	73	Alpha-2- macroglobulin (24, 25 on d.s.)			M23566exon RATA2MAC2 Rattus norvegicus alpha-2-macroglobulin gene, 3 end			

Table 2.

M23843	10938	RHRTT	10939	M63582	10940	P20396	10941	55	Thyrotropin releasing hormone	M23843cds RATTRH02 Rattus norvegicus thyrotropin releasing hormone (TRH) gene, exon 2		
M24026	10942	P15978	10943	U14756	10944	I38874		75	RT1 class Ib gene (40 on d.s.)	M24026 Rat MHC class I RT1 (RT44) mRNA (u haplotype), 3' end /cds=(0,182) /gb=M24026 /gi=205446 /ug=Rn.3577 /len=635	Class I histocompatibility antigen, Non-RT1.A alpha-1 chain precursor.	
M25758	10945	P16446	10946	M73704	10947	Q00169	10948	98	Phosphatidylinositol transfer protein	M25758 Rat phosphatidylinositol transfer protein mRNA, complete cds /cds=(192,1007) /gb=M25758 /gi=206494 /ug=Rn.9771 /len=1638	Cytoplasmic. Phosphatidylinositol transfer protein alpha isoform (PtdIns transferprotein alpha) (PtdInsTP) (PI-TP-alpha).	
M31178	10948	P07171	10950	X06661	10951	P05937	10952	91.84	Cerebellar Ca-binding protein, spot 35 protein	M31178 Rat calbindin D28 mRNA, complete cds /cds=(285,1070) /gb=M31178 /gi=203234 /ug=Rn.3908 /len=2280	Calbindin (Vitamin D-dependent calcium-binding protein, avian-type)(Calbindin D28) (D-28K) (Spot 35 protein).	

Table 2.

NM_01 2637	10953	P20417	10954	AI803189	10955	NP_002 818	10956	88.5	Protein-tyrosine phosphatase (34 on d.s.)	M33962	M33962 Rat protein-tyrosine-phosphatase (PTPase) mRNA, complete cds /cds=(119,1417) /gb=M33962 /gi=208496 /ug=Rn.11317 /len=4127	ASSOCIATED TO THE ENDOPLASMIC RETICULUM VIA ITS C- TERMINAL DOMAIN WITH ITS PHOSPHATASE DOMAIN ORIENTED TOWARDS THE CYTOPLASM.	Protein-tyrosine phosphatase, non-receptor type 1 (EC 3.1.3.48)(Protein- tyrosine phosphatase 1B) (PTP-1B).
M36410	10957	P18297	10958	M76231	10959	P36270	10960	74	Septaplerin reductase	M36410 Rat septaplerin reductase mRNA, partial cds /cds=(0,779) /gb=M36410 /gi=206895 /ug=Rn.6658 /len=1157	Cytoplasmic.	Septaplerin reductase (EC 1.1.1.153) (SPR).	
M38135	10961	P00786	10962	AK026152	10963	KHHUH	10964	87.97	Cathepsin H	M38135 Rat cathepsin H (RCHII) mRNA /cds=(102,988) /gb=M38135 /gi=203340 /ug=Rn.1997 /len=1360	Lysosomal.	Cathepsin H precursor (EC 3.4.22.16) (Cathepsin B3) (Cathepsin BA).	
M58340	10965	P21425	10966	M60724	10967	P23443	10968	96.36	S6 Kinase	M58340 Rat S6 protein kinase mRNA, complete cds /cds=(21,1598) /gb=M58340 /gi=206841 /ug=Rn.4042 /len=2287	CYTOPLASMIC. ALSO FOUND IN THE SOLUBLE SYNAPTOSOMAL FRACTIONS.	Ribosomal protein S6 kinase I (EC 2.7.1.-) (S6K) (P70-S6K).	



Table 2.

M58364	10969	P22288	10870	U63810	10971	O76071	10972	92.83	GTP cyclohydrolase e 1
M58364 Rat GTP cyclohydrolase I mRNA, complete cds /cds=(127,652) /gb=M58364 /gi=204536 /ug=Rn.5933 /len=1016									
M59814	10973	P09759	10874	AL133089	10975	P54762	10976	94.5	Eph receptor B2 (ELK- related protein tyrosine kinase)
M59814 Rattus norvegicus mRNA sequence /cds=UNKNOWN /gb=M59814 /gi=204022 /ug=Rn.1191 /len=4359									
M60921	10977	P27049	10878	U72649	10978	P78543	10980	88.24	B-cell translocation gene 2, anti- proliferative
M60921 Rat PC3 NGF-Inducible anti- proliferative putative secreted protein (PC3) mRNA, complete cds /cds=(64,540) /gb=M60921 /gi=205720 /ug=Rn.4308 /len=2519									
M61142	10981	P24155	10982	BC000583	10983	P52888	10984	85.87	Metalloendope ptidase
M61142 Rat metalloendopeptidase mRNA, complete cds /cds=(57,1994) /gb=M61142 /gi=205373 /ug=Rn.9490 /len=2314									

M58364 Rat GTP cyclohydrolase I mRNA, complete cds /cds=(127,652) /gb=M58364 /gi=204536 /ug=Rn.5933 /len=1016	Type I membrane protein.	GTP cyclohydrolase I precursor (EC 3.5.4.16) (GTP- CH-I).
M59814 Rattus norvegicus mRNA sequence /cds=UNKNOWN /gb=M59814 /gi=204022 /ug=Rn.1191 /len=4359		Ephrin type-B receptor 1 precursor (EC 2.7.1.112) (Tyrosine- protein kinase receptor EPH-2) (ELK).
M60921 Rat PC3 NGF-Inducible anti- proliferative putative secreted protein (PC3) mRNA, complete cds /cds=(64,540) /gb=M60921 /gi=205720 /ug=Rn.4308 /len=2519		BTG2 protein (NGF-Inducible anti-proliferative protein PC3).
M61142 Rat metalloendopeptidase mRNA, complete cds /cds=(57,1994) /gb=M61142 /gi=205373 /ug=Rn.9490 /len=2314	Cytoplasmic.	Thimet oligopeptidase (EC 3.4.24.15) (Endo- oligopeptidase A)(Endopeptida se 24.15) (PZ- peptidase) (Soluble metallo- endopeptidase).

Table 2.

M63282	10985	P29596	10986	NM_0040 24	10987	P18847	10988	88.18	Activating transcription factor 3	M64092	M63282 Rat leucine zipper protein mRNA, complete cds /cds=(162,707) /gb=M63282 /gi=205238 /ug=Rn.9664 /len=1893	Nuclear .	Cyclic-AMP- dependent transcription factor ATF-3 (Activatingtrans cription factor 3) (Liver regeneration factor 1) (LRF- 1).
NM_01 2627	10989	P27775	10990	AF225513	10991	Q8C010	10992	84.4	cAMP- dependent protein kinase (catalytic subunit binding) inhibitor 2	M64092	M64092 Rat testis cAMP-dependent protein kinase inhibitor protein mRNA, complete cds /cds=(255,470) /gb=M64092 /gi=206186 /ug=Rn.9748 /len=1350		cAMP- dependent protein kinase inhibitor, beta form (PKI-beta) (cAMP- dependent protein kinase inhibitor, testis isoform).
M64301	10993	P27704	10994	NM_0027 48	10995	Q16659	10996	91.51	Mitogen- activated protein kinase 6		M64301 RATERK3 Rat extracellular signal- related kinase (ERK3) mRNA, complete cds		Mitogen- activated protein kinase 6 (EC 2.7.1.-) (Extracellular signal-regulated kinase 3) (ERK- 3) (p55-MAPK).
M64376	10997	P23265	10998	NM_0123 77	10999	g329000 1		80.65	Rat olfactory protein		M64376 RATOLFPPOB Rat olfactory protein mRNA, complete cds	Integral membrane protein.	Olfactory receptor-like protein F3.
M64711	11000	P22388	11001	BC009720	11002	P05305	11003	89.44	Endothelin 1		M64711 Rat endothelin-1 mRNA , complete cds /cds=(184,792) /gb=M64711 /gi=204067 /ug=Rn.10918 /len=1385	Secreted.	Endothelin-1 precursor (ET- 1).
M73049	11004	g55622		S78296	11005	Q16352	11006	89	Intermedin, alpha		M73049 Rat alpha-intermedin gene, complete cds /cds=(1292,2809) /gb=M73049 /gi=204963 /ug=Rn.10966 /len=4535		

Table 2.

M74223	11007	P20156	11008	BF223121	11009	g563008 5	94.34	VGF nerve growth factor inducible		M74223 Rat VGF mRNA, complete cds /cds=(183,2036) /gb=M74223 /gi=207650 /ug=Rn.9704 /len=2507	Stored in secretory vesicles and then secreted.	Neurosecretory protein VGF precursor (VGF8a protein).
NM_02 0073	11010	P25981	11011	U17418	11012	Q03431	87.33	Parathyroid hormone receptor	M77184	M77184 Rat parathyroid hormone receptor mRNA, complete cds /cds=(72,1847) /gb=M77184 /gi=206034 /ug=Rn.11357 /len=2065	Integral membrane protein.	Parathyroid hormone/parath yroid hormone- related peptide receptor/precurs or (PTH/PTHR receptor).
M80601	11014	P47816	11015	AK055180	11016	g378013 3	87.27	Programmed cell death 2		M80601 Rat zinc finger protein (RP8) mRNA, 3' end /cds=(0,863) /gb=M80601 /gi=206717 /ug=Rn.6859 /len=812	Nuclear .	Programmed cell death protein 2 (Zinc finger protein Rp-8) (Fragment).
M83143	11017	P13721	11018	AA705428	11019	P15907	89.67	beta- galactoside- alpha 2,6- sialyltransfera se		M83143 Rat beta-galactoside-alpha 2,6- sialyltransferase mRNA /cds=(104,748) /gb=M83143 /gi=203146 /ug=Rn.1409 /len=3224	TYPE II MEMBRANE PROTEIN. MEMBRANE- BOUND FORM IN TRANS CISTERNAE OF GOLGI, SOLUBLE FORM IN BODY FLUIDS.	CMP-N- acetylneuramini de-beta- galactosamide- alpha-2,6- sialyltransferase (EC 2.4.99.1) (Beta- galactoside alpha-2,6- sialyltransferase (Alpha 2,6-ST) (Sialyltransferase 1) (ST6Gal I).
M83678	11021	P35286	11022	X75593	11023	P51153	90	RAB13		M83678 Sprague-Dawley (clone LRB10) RAB13 mRNA, 3' end /cds=(0,494) /gb=M83678 /gi=206532 /ug=Rn.9819 /len=857		Ras-related protein Rab-13 (Fragment).

Table 2.

M86341	11025	Q02589	11026	L13281	11027	P54922	11028	82.79	ESTs, Highly similar to ADP-RIBOSYLARGININE HYDROLASE [R.norvegicus]	M86341 RATADPRHA Rat ADP-ribosylarginine hydrolase mRNA, complete cds	ADP-ribosylarginine hydrolase (EC 3.2.2.19) (ADP-ribose-L-argininecleaving enzyme).
M86389	11029	P42930	11030	L39370	11031	HHHU27	11032	82	Heat shock 27 kDa protein (33 on d.s.)	M86389cds RATHSP27A Rat heat shock protein (Hsp27) mRNA, complete cds	Heat shock 27 kDa protein (HSP 27).
M86621	11033	P54290	11034	M76560	11035	Q02641	11036	95	Calcium channel subunit alpha 2 delta (dihydropyridine-sensitive L-type)	M86621 Rat dihydropyridine-sensitive L-type calcium channel alpha-2 subunit (CCHL2A) gene, complete cds /cds=(154,3429) /gb=M86621 /gi=203954 /ug=Rn.11276 /len=3804	Dihydropyridine-sensitive L-type, calcium channel alpha-2/deltasubunits precursor.
M87067	11037	JQ1484		X77533	11038	Q13705	11039	91.12	Activine receptor 2b (transmembrane serine kinase)	M87067 R.norvegicus activin type IIB receptor mRNA /cds=UNKNOWN /gb=M87067 /gi=202696 /ug=Rn.24240 /len=2041	Integral membrane protein.
M88709	11040	P32736	11041	L34774	11042	Q14982	11043	92.08	Cell adhesion-like molecule	M88709 Rattus norvegicus cell adhesion-like molecule mRNA, complete CDS /cds=(637,1653) /gb=M88709 /gi=203245 /ug=Rn.11366 /len=3054	Attached to the membrane by a GPI-anchor. Opioid binding protein/cell adhesion molecule precursor (OB CAM)(Opioid-binding cell adhesion molecule) (OPCML).

Table 2.

M91652	11044	P09806	11045	Y00387	11046	P15104	11047	92	Glutamine synthetase (glutamate-ammonia ligase) (39 on d.s.)		M91652 complete Seq Rat glutamine synthetase (glnA) mRNA, complete cds /cds=UNKNOWN /gb=M91652 /gi=204348 /ug=Rn.2204 /len=2793	Cytoplasmic.	Glutamine synthetase (EC 6.3.1.2) (Glutamate-ammonia ligase).
M98049	11048	P25031	11049	D13510	11050	Q06141	11051	80.22	Pancreatitis-associated protein precursor (pap)		M98049 RATPAPC Rattus rattus pancreatitis-associated protein (pap) mRNA, complete cds	SECRETED. FOUND IN THE APICAL REGION OF PANCREATIC ACINAR CELLS.	Pancreatitis-associated protein 1 precursor (Peptide 23) (REG-2).
M99418	11052	P30553	11053	L04473	11054	P32239	11055	88.73	Cholecystokinin B receptor		M99418 Rat brain cholecystokinin receptor mRNA, complete cds /cds=(135,1493) /gb=M99418 /gi=203459 /ug=Rn.10324 /len=2243	Integral membrane protein.	Gastrin/cholecystokinin type B receptor (CCK-B receptor) (CCK-BR).
M63983	11058	P27605	11057	L29382	11058	AAB593 92	11059	94	Hypoxanthine phosphoribosyl transferase	AA789402	rc_AA789402 EST188899 Rattus norvegicus cDNA, 3' end /clone=RHEAA77 /clone_end=3 /gb=AA789402 /gi=2862357 /ug=Rn.6182 /len=590	Cytoplasmic.	Hypoxanthine-guanine phosphoribosyl transferase (EC 2.4.2.8) (HGPRT)(HGP RTase).
AA789406	11060	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			EST(not recognised)		rc_AA789406 EST188903 Rattus norvegicus cDNA, 3' end /clone=RHEAA79 /clone_end=3 /gb=AA789406 /gi=2862361 /ug=Rn.80 /len=591		
AA789448	11061	No Rat Protein Found.		BF109813	11062	P13726	11063	98.15	EST(not recognised)		rc_AA789448 EST188945 Rattus norvegicus cDNA, 3' end /clone=RHEAB18 /clone_end=3 /gb=AA789448 /gi=2862403 /ug=Rn.8298 /len=616		

Table 2.

AA799505	11064	No Rat Protein Found.	X76057	11065	P34949	11066	90.08	ESTs, Moderately similar to 2006245A phosphomannose isomerase [H.sapiens]	AA799538	tc_AA799505 EST189002 Rattus norvegicus cDNA, 3' end /clone=RHEAB83 /clone_end=3 /gb=AA799505 /gi=2862460 /ug=Rn.6195 /len=612		
NM_011358	11067	Q62093	11068	XM_036786	XP_036786	11071	93	Splicing factor, arginine/serine rich 2 (SC-35) (15 on d.s.)	AA799538	tc_AA799538 EST189035 Rattus norvegicus cDNA, 3' end /clone=RHEAC30 /clone_end=3 /gb=AA799538 /gi=2862493 /ug=Rn.2951 /len=612	Nuclear.	Splicing factor, arginine/serine-rich 2 (Splicing factor SC35) (SC-35)(Splicing component, 35 kDa) (PR264 protein).
AA799539	11069	No Rat Protein Found.	AK000931	11070	NP_005997	11071	94.31	ESTs, Weakly similar to 2118318A promyelocyte leukemia Zn finger protein [M.musculus]		tc_AA799539 EST189036 Rattus norvegicus cDNA, 3' end /clone=RHEAC31 /clone_end=3 /gb=AA799539 /gi=2862494 /ug=Rn.6200 /len=615		
AA799542	11072	No Rat Protein Found.	AJ132695	11073	CAA10733	11074	88	rac1 gene		tc_AA799542 EST189039 Rattus norvegicus cDNA, 3' end /clone=RHEAC34 /clone_end=3 /gb=AA799542 /gi=2862497 /ug=Rn.980 /len=553		
AA799551	11075	S06147	11076	AF322067	Q8BZG1	11078	95.39	ESTs, Weakly similar to S06147 GTP-binding protein rab1B [R.norvegicus]		tc_AA799551 EST189048 Rattus norvegicus cDNA, 3' end /clone=RHEAC45 /clone_end=3 /gb=AA799551 /gi=2862506 /ug=Rn.11546 /len=616		

Table 2.

AF208162	11079	Q9WVL2	11080	NM_005419	11081	P52630	11082	67	Signal transducer and activator of transcription 2 (Stat2)	AA799569	rc_AA799569 EST189066 Rattus norvegicus cDNA, 3' end /clone=RHEAC65 /clone_end=3 /gb=AA799569 /gi=2862524 /ug=Rn.22213 /len=491	Nuclear, translocated into the nucleus in response to phosphorylation.	Signal transducer and activator of transcription 2.
AA799581	11083	No Rat Protein Found.		D86972	11084	Q93075	11085	89	ESTs, Moderately similar to PUTATIVE DEOXYRIBO NUCLEASE KIAA0218 [H.sapiens]	rc_AA799581 EST189078 Rattus norvegicus cDNA, 3' end /clone=RHEAC77 /clone_end=3 /gb=AA799581 /gi=2862536 /ug=Rn.6207 /len=589			
AA799599	11086	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			EST(not recognised)	rc_AA799599 EST189096 Rattus norvegicus cDNA, 3' end /clone=RHEAC95 /clone_end=3 /gb=AA799599 /gi=2862554 /ug=Rn.6209 /len=590			
AA799800	11087	P43035	11088	L13388	11089	S36113		33	ESTs, Weakly similar to PLATELET-ACTIVATING FACTOR ACETYLHYDROLASE IB ALPHA SUBUNIT [R.norvegicus]	rc_AA799600 EST189097 Rattus norvegicus cDNA, 3' end /clone=RHEAC96 /clone_end=3 /gb=AA799600 /gi=2862555 /ug=Rn.3774 /len=591			
AA799809	11090	No Rat Protein Found.		XM_012017		XP_012017		97	ESTs, Moderately similar to T43443 hypothetical protein DKFZp434A2316.1 [H.sapiens]	rc_AA799809 EST189106 Rattus norvegicus cDNA, 3' end /clone=RHEAD12 /clone_end=3 /gb=AA799809 /gi=2862564 /ug=Rn.6210 /len=663			

Table 2.

AA7896 16	11091	No Rat Protein Found.	Z50022	11092	P53801	11093	82	ESTs, Moderately similar to PUTATIVE SURFACE GLYCOPROTEIN C21ORF1 PRECURSOR [H.sapiens]	AA799637	rc_AA799616 EST189113 Rattus norvegicus cDNA, 3' end /clone=RHEAD20 /clone_end=3 /gb=AA799616 /gi=2862571 /ug=Rn.4248 /len=599	rc_AA799616 EST189113 Rattus norvegicus cDNA, 3' end /clone=RHEAD20 /clone_end=3 /gb=AA799616 /gi=2862571 /ug=Rn.4248 /len=599	Phospholipase precursor (FYD domain- containing ion transport regulator or 1).
AF0955 85	11084	AAD13 197	11095 AF345905	11096 JC2324	11097	11097	88.78	ESTs, Weakly similar to A55071 hydrogen peroxide- inducible protein hlo-5 - mouse [M.musculus] (LIM protein - homo and rattus)	AA799637	rc_AA799637 EST189134 Rattus norvegicus cDNA, 3' end /clone=RHEAD45 /clone_end=3 /gb=AA799637 /gi=2862592 /ug=Rn.25425 /len=571	rc_AA799637 EST189134 Rattus norvegicus cDNA, 3' end /clone=RHEAD45 /clone_end=3 /gb=AA799637 /gi=2862592 /ug=Rn.25425 /len=571	Type I membrane protein.
AA7896 45	11088	O08589	11099 U72245	11100 O00168	11101	11101	80	FYD domain- containing ion transport regulator 1	AA799664	rc_AA799645 EST189142 Rattus norvegicus cDNA, 3' end /clone=RHEAD54 /clone_end=3 /gb=AA799645 /gi=2862600 /ug=Rn.3828 /len=591	rc_AA799645 EST189142 Rattus norvegicus cDNA, 3' end /clone=RHEAD54 /clone_end=3 /gb=AA799645 /gi=2862600 /ug=Rn.3828 /len=591	Cytoplasmic and nuclear after activation by Integrin- linked protein kinase 1 (ILK1).
X65687	11102	P31750	11103 XM_01518 1	XP_015 191			98	v-akt murine thymoma viral oncogene	AA799664	rc_AA799664 EST189161 Rattus norvegicus cDNA, 3' end /clone=RHEAD75 /clone_end=3 /gb=AA799664 /gi=2862619 /ug=Rn.6217 /len=611	rc_AA799664 EST189161 Rattus norvegicus cDNA, 3' end /clone=RHEAD75 /clone_end=3 /gb=AA799664 /gi=2862619 /ug=Rn.6217 /len=611	RAC-alpha serine/threonine kinase (EC 2.7.1.-) (RAC- PK-alpha) (AKT1 kinase) (Protein kinase B) (PKB) (C- AKT) (Thymoma viral proto- oncogene).



Table 2.

AA7986 81	11104	No Rat Protein Found.	No human homolog found.	No Human Protein Found.		EST(not recognised)	AA798745	rc_AA798681 EST189178 Rattus norvegicus cDNA, 3' end /clone=RHEAD88 /clone_end=3 /gb=AA798681 /gi=2862636 /ug=Rn.20182 /len=461
AA7986 87	11105	No Rat Protein Found.	AI855528	11106	11109	88.35		rc_AA798687 EST189184 Rattus norvegicus cDNA, 3' end /clone=RHEAE07 /clone_end=3 /gb=AA798687 /gi=2862642 /ug=Rn.3812 /len=564
AA7987 32	11107	No Rat Protein Found.	X96484	11108	11109	91.03		rc_AA798732 EST189229 Rattus norvegicus cDNA, 3' end /clone=RHEAE60 /clone_end=3 /gb=AA798732 /gi=2862687 /ug=Rn.22467 /len=579
AF1774 76	11110	AAF602 22	11111	XP_017042		82		rc_AA798745 EST189242 Rattus norvegicus cDNA, 3' end /clone=RHEAE75 /clone_end=3 /gb=AA798745 /gi=2862700 /ug=Rn.3727 /len=568
AA7987 51	11112	No Rat Protein Found.	AV724415	11113		85.58		rc_AA798751 EST189248 Rattus norvegicus cDNA, 3' end /clone=RHEAE83 /clone_end=3 /gb=AA798751 /gi=2862706 /ug=Rn.3583 /len=671
AA7987 55	11114	P15087	11115	D86479	11117	88.52		rc_AA798755 EST189252 Rattus norvegicus cDNA, 3' end /clone=RHEAE91 /clone_end=3 /gb=AA798755 /gi=2862710 /ug=Rn.17143 /len=678
AA7987 83	11118	No Rat Protein Found.	AI882207	11119		96.3		rc_AA798783 EST189280 Rattus norvegicus cDNA, 3' end /clone=RHEAF28 /clone_end=3 /gb=AA798783 /gi=2862738 /ug=Rn.12965 /len=609
AA7987 96	11120	No Rat Protein Found.	AL137285	11121		91.94		rc_AA798786 EST189283 Rattus norvegicus cDNA, 3' end /clone=RHEAF46 /clone_end=3 /gb=AA798786 /gi=2862751 /ug=Rn.3620 /len=631

Table 2.

D88250	11122	BAA257 97	11123	XM_00664 1	XP_006 641	76	ESTs, Weakly similar to JC654 probable serine proteinase [R.norvegicus]	AA798803	rc_AA798803 EST189300 Rattus norvegicus cDNA, 3' end /clone=RHEAF55 /clone_end=3 /gb=AA798803 /gi=2862758 /ug=Rn.6235 /len=622	
AA7998 04	11124	No Rat Protein Found.		No human homolog found.	No Human Protein Found.		EST(not recognised)		rc_AA799804 EST189301 Rattus norvegicus cDNA, 3' end /clone=RHEAF56 /clone_end=3 /gb=AA799804 /gi=2862759 /ug=Rn.25117 /len=582	
U18293	11125	Q62728	11126	X79510	11127	87.03	ESTs, Moderately similar to PROTEIN TYROSINE PHOSPHATA SE, NON- RECEPTOR TYPE 3 [H.sapiens] (see 5 on d.s.)	AA799812	rc_AA799812 EST189309 Rattus norvegicus cDNA, 3' end /clone=RHEAF84 /clone_end=3 /gb=AA799812 /gi=2862767 /ug=Rn.22271 /len=500	Protein tyrosine phosphatase, non-receptor type 21 (EC 3.1.3.48)(Protein tyrosine phosphatase 2E).
AA7998 28	11129	No Rat Protein Found.		U79253	11130	77	ESTs, Moderately similar to ATP SYNTHASE COUPLING FACTOR B, MITOCHOND RIAL PRECURSOR [H.sapiens]		rc_AA798829 EST189326 Rattus norvegicus cDNA, 3' end /clone=RHEAF88 /clone_end=3 /gb=AA798829 /gi=2862784 /ug=Rn.25181 /len=517	
AA7998 90	11132	No Rat Protein Found.		AW86670 2	11133	84.24	EST(not recognised)		rc_AA798890 EST189387 Rattus norvegicus cDNA, 3' end /clone=RHEAG58 /clone_end=3 /gb=AA798890 /gi=2862845 /ug=Rn.22781 /len=483	

Table 2.

AA7899 71	11134	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	ESTs, Weakly similar to S52875 probable membrane protein YDR109c [S.cerevisiae]	rc_AA789971 EST189468 Rattus norvegicus cDNA, 3' end /clone=RHEAH76 /clone_end=3 /gb=AA789971 /gl=2862926 /ug=Rn.8436 /len=483
AA7899 91	11135	No Rat Protein Found.		No Human Protein Found.	EST(not recognised)	rc_AA789991 EST189488 Rattus norvegicus cDNA, 3' end /clone=RHEAI01 /clone_end=3 /gb=AA789991 /gl=2862946 /ug=Rn.3844 /len=712
AA8000 33	11136	No Rat Protein Found.	BI195716	11137 P50395	ESTs, Weakly similar to MUCIN 2 PRECURSOR [H.sepiens]	rc_AA800033 EST189530 Rattus norvegicus cDNA, 3' end /clone=RHEAI61 /clone_end=3 /gb=AA800033 /gl=2862988 /ug=Rn.6273 /len=643
AA8000 36	11139	No Rat Protein Found.	NM_0145 75	11140 NP_055 390	Schwannomim- interacting protein 1 (SCHIP1)	rc_AA800036 EST189533 Rattus norvegicus cDNA, 3' end /clone=RHEAI65 /clone_end=3 /gb=AA800036 /gl=2862991 /ug=Rn.22212 /len=514
AA8001 70	11142	No Rat Protein Found.	NM_0034 43	11143 Q13105	ESTs, Weakly similar to ECTODERM- NEURAL CORTEX-1 PROTEIN (ENC-1) [M.musculus]	rc_AA800170 EST189667 Rattus norvegicus cDNA, 3' end /clone=RHEAM03 /clone_end=3 /gb=AA800170 /gl=2863125 /ug=Rn.22462 /len=593
AA8001 99	11145 B39066		BE396293	11146 T34520	ESTs, Weakly similar to B39066 proline-rich protein 15 - [R.norvegicus]	rc_AA800199 EST189698 Rattus norvegicus cDNA, 3' end /clone=RHEAM36 /clone_end=3 /gb=AA800199 /gl=2863154 /ug=Rn.2990 /len=631

Table 2.

AA800200	11147	No Rat Protein Found.	AL042404	11148	O00519	11149	90.4	similar to hypothetical protein FLJ22608 (H. sapiens)	rc_AA800200 EST189697 Rattus norvegicus cDNA, 3' end /clone=RHEAM37 /gb=AA800200 /gi=2863155 /ug=Rn.8297 /len=476	INTEGRAL MEMBRANE PROTEIN. SARCOPLASMIC AND ENDOPLASMIC RETICULUM	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2 (EC 3.6.3.8)(Calcium pump 2) (SERCA2) (SR Ca(2+)-ATPase 2) (Calcium-transporting ATPase sarcolemmal type, slow twitch skeletal muscle)	
AA800212	11150	P11507	11151	M23114	11152	P16615	11153	91.03	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	rc_AA800212 EST189709 Rattus norvegicus cDNA, 3' end /clone=RHEAM51 /gb=AA800212 /gi=2863167 /ug=Rn.2305 /len=727		
BC002146	11154	AAH02146	11155	XM_006736	XP_006736		91	similar to HSPC160 protein (EST)	rc_AA800268 EST189765 Rattus norvegicus cDNA, 3' end /clone=RHEAN22 /clone_end=3 /gb=AA800268 /gi=2863223 /ug=Rn.3875 /len=569			
AA800318	11156	B26423	11157	M13203	11158	ITTHUC1	11159	81	ESTs, Weakly similar to B26423 serine proteinase inhibitor 2.2 - rat [R.norvegicus]	rc_AA800318 EST189815 Rattus norvegicus cDNA, 3' end /clone=RHEAN84 /clone_end=3 /gb=AA800318 /gi=2863273 /ug=Rn.947 /len=560		

Table 2.

AA8005 03	11160	NP_058 839	11161	XM_01041 7	XP_010 417	47	Homo Sapiens proline-rich Gla (G- carboxyglutam ic acid) polypeptide 1	rc_AA800503 EST190000 Rattus norvegicus cDNA, 3' end /clone=RLUAB01 /clone_end=3 /gb=AA800503 /gl=2863458 /ug=Rn.6320 /len=492
AA8005 19	11162	No Rat Protein Found.		No human homolog found.	No Human Protein Found.		EST(not recognised)	rc_AA800519 EST190016 Rattus norvegicus cDNA, 3' end /clone=RLUAB11 /clone_end=3 /gb=AA800519 /gl=2863474 /ug=Rn.3883 /len=612
AA8005 35	11163	No Rat Protein Found.		AF247703	11164	11165	ESTs, Weakly similar to T47144 hypothetical protein DKFZp761E1 347.1 [H.sapiens]	rc_AA800535 EST190032 Rattus norvegicus cDNA, 3' end /clone=RLUAB20 /clone_end=3 /gb=AA800535 /gl=2863480 /ug=Rn.8573 /len=476
AA8005 72	11168	No Rat Protein Found.		AF041037	11167	11168	Homo sapiens novel antagonist of FGF signalling (sprouty-1)	rc_AA800572 EST190089 Rattus norvegicus cDNA, 3' end /clone=RLUAB42 /clone_end=3 /gb=AA800572 /gl=2863527 /ug=Rn.22787 /len=473
AA8006 13	11169	P47973	11170	M92843	P26651	11172	Rattus norvegicus gene for TIS11	rc_AA800613 EST190110 Rattus norvegicus cDNA, 3' end /clone=RLUAB70 /clone_end=3 /gb=AA800613 /gl=2863568 /ug=Rn.2454 /len=506
AA8006 39	11173	No Rat Protein Found.		No human homolog found.	No Human Protein Found.		EST(not recognised)	rc_AA800639 EST190136 Rattus norvegicus cDNA, 3' end /clone=RLUAB85 /clone_end=3 /gb=AA800639 /gl=2863594 /ug=Rn.6615 /len=583

Table 2.

AA800678	11174	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	EST(not recognised)	rc_AA800678 EST190175 Rattus norvegicus cDNA, 3' end /clone=RLUAK20 /clone_end=3 /gb=AA800678 /gi=2863633 /ug=Rn.8592 /len=452
AA800708	11175	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	EST(not recognised)	rc_AA800708 EST190205 Rattus norvegicus cDNA, 3' end /clone=RLUAK52 /clone_end=3 /gb=AA800708 /gi=2863663 /ug=Rn.3886 /len=841
AA800749	11178	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	EST(not recognised)	rc_AA800749 EST190246 Rattus norvegicus cDNA, 3' end /clone=RLUAL02 /clone_end=3 /gb=AA800749 /gi=2863704 /ug=Rn.1897 /len=637
AA800772	11177	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	EST(not recognised)	rc_AA800772 EST190269 Rattus norvegicus cDNA, 3' end /clone=RLUAL27 /clone_end=3 /gb=AA800772 /gi=2863727 /ug=Rn.6639 /len=600
AA800790	11178	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	EST(not recognised)	rc_AA800790 EST190287 Rattus norvegicus cDNA, 3' end /clone=RLUAL48 /clone_end=3 /gb=AA800790 /gi=2863745 /ug=Rn.23464 /len=528
AA800885	11179	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	EST(not recognised)	rc_AA800885 EST190382 Rattus norvegicus cDNA, 3' end /clone=RLUAM63 /clone_end=3 /gb=AA800885 /gi=2863840 /ug=Rn.6660 /len=422
AA800912	11180	No Rat Protein Found.	AF118270	11181 Q9UHL9	91.44 Muscle TFI-I repeat domain containing protein 1	rc_AA800912 EST190409 Rattus norvegicus cDNA, 3' end /clone=RLUAN02 /clone_end=3 /gb=AA800912 /gi=2863867 /ug=Rn.6685 /len=423
NM_011602	11183	P26039	AF177198	11185 Q9Y490	90 Tallin ~	rc_AA800962 EST190459 Rattus norvegicus cDNA, 3' end /clone=RLUAN59 /clone_end=3 /gb=AA800962 /gi=2863917 /ug=Rn.6674 /len=495

Talin.

Table 2.

AA8178 54	11187	P13635	11188	M13699	11189	P00450	11190	86.44	Ceruloplasmin (ferroxidase)	AA818025	rc_AA817854 UI-R-A0-ae-g-10-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- A0-ae-g-10-Q-UI /clone_end=3 /gb=AA817854 /gi=2848779 /ug=Rn.8598 /len=438	Attached to membrane by a GPI- anchor.	Ceruloplasmin precursor (EC 1.16.3.1) (Ferroxidase).
NIM_01 2825	11191	P27274	11192	AF052941	11193	NP_000 602	11194	92.06	CD59 antigen	AA818025	rc_AA818025 UI-R-A0-ae-g-06-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-A0-ae- g-06-Q-UI /clone_end=3 /gb=AA818025 /gi=2887905 /ug=Rn.1231 /len=487		CD59 glycoprotein precursor (Membrane attack complex inhibition factor) (MACiF) (MAC- inhibitory protein) (MAC- IP) (Protectin).
NM_02 2538	11195	NP_071 983	11196	D29641	11197	P42285	11198	91.88	Phosphatidate phosphohydro- lase type 2	AA818593	rc_AA818593 UI-R-A0-bc-g-01-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- A0-bc-g-01-Q-UI /clone_end=3 /gb=AA818593 /gi=2889332 /ug=Rn.1944 /len=475	Type I membrane protein. Endoplasmic reticulum.	Translocon- associated protein, delta subunit precursor (TRAP- delta)(Signal sequence receptor delta subunit) (SSR- delta).
AA8193 38	11199	Q07984	11200	Z69043	11201	P51571	11202	87.92	Signal sequence receptor, delta		rc_AA818338 UI-R-A0-bc-c-12-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- A0-bc-c-12-Q-UI /clone_end=3 /gb=AA818338 /gi=2889427 /ug=Rn.1999 /len=544		
AF2810 18	11203	AAF812 65	11204	X76771	11205	P39748	11206	89.69	Flag structure- specific endonuclease	AA819793	rc_AA819793 UI-R-A0-aq-f-03-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-A0-aq-f- 03-Q-UI /clone_end=3 /gb=AA819793 /gi=28888980 /ug=Rn.16664 /len=522		

Table 2.

AA8496 48	11207	P20280	11208	X04790	11209	P10398	11210	92.86	Ribosomal protein L21		rc_AA849848 EST192415 Rattus norvegicus cDNA, 3' end /clone=RMUAH28 /clone_end=3 /gb=AA849848 /gi=2937188 /ug=Rn.2554 /len=413	60S ribosomal protein L21.
AA8585 71	11211	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			EST(not recognised)		rc_AA858571 UI-R-E0-bq-f-03-Q-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R-E0-bq-f- 03-Q-UI /clone_end=3 /gb=AA858571 /gi=2948911 /ug=Rn.82 /len=357	
AA8586 00	11212	No Rat Protein Found.		D38496	11213	15438	11214	98	ESTs, Highly similar to I54388 LZTR- 1 [H.sapiens]		rc_AA858600 UI-R-E0-bq-h-10-Q-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R- E0-bq-h-10-Q-UI /clone_end=3 /gb=AA858600 /gi=2948940 /ug=Rn.21404 /len=559	
AF2861 31	11215	Q9ERM 3	11216	B1521353	11217	XP_035 370	11218	89.11	Diacylglycerol acyltransferase 1	AA859529	rc_AA859529 UI-R-E0-br-b-12-Q-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R-E0-br-b- 12-Q-UI /clone_end=3 /gb=AA859529 /gi=2949049 /ug=Rn.252 /len=431	Diacylglycerol O- acyltransferase 1 (EC 2.3.1.20) (Diglycerideacyl- transferase).
AA8595 45	11219	No Rat Protein Found.		AK001787	11220	No Human Protein Found.	11221	89.44	EST(not recognised)		rc_AA859545 UI-R-E0-br-d-06-Q-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R-E0-br-d- 06-Q-UI /clone_end=3 /gb=AA859545 /gi=2948085 /ug=Rn.281 /len=512	
AA8596 52	11222	No Rat Protein Found.		A1658971	11223	No Human Protein Found.		82.61	EST(not recognised)		rc_AA859652 UI-R-E0-be-b-06-Q-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R- E0-be-b-06-Q-UI /clone_end=3 /gb=AA859652 /gi=2949172 /ug=Rn.35 /len=529	
AA8598 90	11224	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			EST(not recognised)		rc_AA859890 UI-R-E0-bx-e-11-Q-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R- E0-bx-e-11-Q-UI /clone_end=3 /gb=AA859890 /gi=2949210 /ug=Rn.51 /len=419	



Table 2.

AB02451 86	11225	BAA892 48	11226	XM_01769 8	11227	XP_017 698	11228	84	Heparan sulfate 6- sulfotransfera se 1	AA859740	rc_AA859740 UI-R-EO-bx-b-06-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- EO-bx-b-06-Q-UI /clone_end=3 /gb=AA859740 /gi=2949260 /ug=Rn.22626 /len=418
AA8598 04	11228	No Rat Protein Found.		BC005392	11230	JQ1037	11231	95.17	ESTs, Highly similar to SAP3	rc_AA859804 UI-R-EO-bu-h-07-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- EO-bu-h-07-Q-UI /clone_end=3 /gb=AA859804 /gi=2949324 /ug=Rn.769 /len=455	
AA8598 27	11232	BAA830 85	11233	BF745219	11234	P04155	11235	93.27	Uridine- cytidine kinase 2	rc_AA859827 UI-R-EO-cc-f-10-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-EO-cc-f- 10-Q-UI /clone_end=3 /gb=AA859827 /gi=2949347 /ug=Rn.24811 /len=500	
AA8598 37	11236	P36577	11237	NM_0042 93	11238	Q9Y2T3	11239	87.87	Guanine deaminase	rc_AA859837 UI-R-EO-cc-g-09-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- EO-cc-g-09-Q-UI /clone_end=3 /gb=AA859837 /gi=2949357 /ug=Rn.24783 /len=486	
AA8598 98	11240	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			EST(not recognised)	rc_AA859898 UI-R-EO-cg-a-02-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- EO-cg-a-02-Q-UI /clone_end=3 /gb=AA859898 /gi=2949418 /ug=Rn.809 /len=503	
AA8598 99	11241	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			EST(not recognised)	rc_AA859899 UI-R-EO-cg-a-03-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- EO-cg-a-03-Q-UI /clone_end=3 /gb=AA859899 /gi=2949419 /ug=Rn.810 /len=353	
AA8599 09	11242	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			EST(not recognised)	rc_AA859909 UI-R-EO-cg-b-02-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- EO-cg-b-02-Q-UI /clone_end=3 /gb=AA859909 /gi=2949429 /ug=Rn.815 /len=531	
										Anesth-D (Fragment).	

Arrestin-D  
(Fragment).

Table 2.

AA8598 11	11243	Q11205	11244	X86667	11245	JC5251	11246	87.89	Sialyltransferase 5	AA860010	rc_AA860010 UI-R-E0-ca-o-07-Q-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R-E0-ca-o-07-Q-UI /clone_end=3 /gb=AA860010 /gi=2949530 /ug=Rn.872 /len=400	rc_AA860015 UI-R-E0-ca-o-12-Q-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R-E0-ca-o-12-Q-UI /clone_end=3 /gb=AA860015 /gi=2949535 /ug=Rn.857 /len=580	TYPE II MEMBRANE PROTEIN. MEMBRANE- BOUND FORM IN TRANS CISTERNAE OF GOLGI, SOLUBLE FORM IN BODY FLUIDS.	CMP-N- acetylneuraminate-beta- galactosamide- alpha-2,3- sialyltransferase (EC 2.4.99.-) (Beta- galactoside alpha-2,3- sialyltransferase ) (Alpha2,3-ST) (GalNAc6S) (Gal-beta-1,3- GalNAc-alpha- 2,3-sialyltransf
BC0114 80	11247	AAH11 490	11248	NM_0007 42	11249	Q15822	11250	77	Similar to cholinergic receptor, nicotinic, alpha polypeptide 2 (neuronal)					
AA8600 15	11251	No Rat Protein Found.	F34867		11252	XP_002 616		95.2	ESTs, Weakly similar to T50607 hypothetical protein DKFP434110 16.1 [H.sapiens]					

Table 2.

Y17793	11253	CAA76 850	11254	AF040980	11255	AAC395 75	11256	87	Mus musculus mRNA for Dutt1 protein (strong homology to Roundabout 1)	AA860017	rc_AA860017 UI-R-E0-ca-d-02-O-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- EO-ca-d-02-O-UI /clone_end=3 /gb=AA860017 /gi=2949537 /ug=Rn.876 /len=528		
AA8600 39	11257	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			EST(not recognised)	rc_AA860039 UI-R-E0-bz-f-06-O-UI.s2 Rattus norvegicus cDNA, 3 end /clone=UI-R-E0-bz-f- 06-O-UI /clone_end=3 /gb=AA860039 /gi=2949559 /ug=Rn.889 /len=341		Membrane- bound. Endoplasmic reticulum.	Cytochrome P450 2C7 (EC 1.14.14.1) (CYP11C7) (P450F) (PTF1).
NM_01 7158	11258	P05179	11259	NM_0007 69	11260	P33281	11261	72	cytochrome P450 mRNA (8, 29, 48, 49, 50 on d.s.)	AA866240	rc_AA866240 UI-R-A0-bg-g-05-O-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- A0-bg-g-05-O-UI /clone_end=3 /gb=AA866240 /gi=2961686 /ug=Rn.3010 /len=291		
AA8662 76	11262	A60543		AK027693	11263	Q86S97	11264	94.64	ESTs, Weakly similar to A60543 protein kinase [R.norvegicus]	rc_AA866276 UI-R-A0-bg-b-08-O-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- A0-bg-b-08-O-UI /clone_end=3 /gb=AA866276 /gi=2961737 /ug=Rn.3035 /len=476			
AA8664 26	11265	No Rat Protein Found.		AA937337	11266	No Human Protein Found.		92.41	EST(not recognised)	rc_AA866428 UI-R-E0-ch-d-05-O-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- EO-ch-d-05-O-UI /clone_end=3 /gb=AA866426 /gi=2961887 /ug=Rn.3101 /len=502			
AA8664 39	11267	No Rat Protein Found.		AK057056	11268	No Human Protein Found.		91.07	EST(not recognised)	rc_AA866439 UI-R-E0-ch-g-02-O-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- EO-ch-g-02-O-UI /clone_end=3 /gb=AA866439 /gi=2961900 /ug=Rn.3109 /len=248			

Table 2.

AF121217	11269	P02466	11270	D21235	11271	P54725	11272	95.37	Pro-alpha 2(I) collagen (COL1A2)	AA866454	rc_AA866454 UI-R-E0-br-e-07-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-E0-br-e-07-Q-UI /clone_end=3 /gb=AA866454 /gi=2861915 /ug=Rn.3115 /len=516	Collagen alpha 2(I) chain precursor.
AA874803	11273	No Rat Protein Found.	NC_001807	No human homolog found.	NP_008352	89	ESTs, Moderately similar to 0808162L protein URF5 [M.musculus]			rc_AA874803 UI-R-E0-bw-g-08-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-E0-bw-g-08-Q-UI /clone_end=3 /gb=AA874803 /gi=2979751 /ug=Rn.3130 /len=524		
AA874809	11274	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	T00268	90.32	ESTs, Highly similar to T00268 hypothetical protein KIAA0597 [H.sapiens]			rc_AA874809 UI-R-E0-bw-h-02-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-E0-bw-h-02-Q-UI /clone_end=3 /gb=AA874809 /gi=2979757 /ug=Rn.24363 /len=528		
AA874856	11275	No Rat Protein Found.	AK000970	No human homolog found.	No Human Protein Found.		EST(not recognised)			rc_AA874856 UI-R-E0-cg-h-11-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-E0-cg-h-11-Q-UI /clone_end=3 /gb=AA874856 /gi=2979804 /ug=Rn.3146 /len=548		
AA874875	11277	No Rat Protein Found.	No human homolog found.	No Human Protein Found.			EST(not recognised)			rc_AA874875 UI-R-E0-cl-e-07-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-E0-cl-e-07-Q-UI /clone_end=3 /gb=AA874875 /gi=2979823 /ug=Rn.21411 /len=456		
AA874912	11278	No Rat Protein Found.	No human homolog found.	No Human Protein Found.			EST(not recognised)			rc_AA874912 UI-R-E0-ck-f-12-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-E0-ck-f-12-Q-UI /clone_end=3 /gb=AA874912 /gi=2979860 /ug=Rn.3309 /len=515		
AA874927	11279	No Rat Protein Found.	No human homolog found.	No Human Protein Found.			EST(not recognised)			rc_AA874927 UI-R-E0-ck-h-07-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-E0-ck-h-07-Q-UI /clone_end=3 /gb=AA874927 /gi=2979875 /ug=Rn.3178 /len=475		

Table 2.

AA8749 52	11280	No Rat Protein Found.	AB007885	11281	NP_005 086	11282	87.77	zinc finger protein 262 (ZNF262)	rc_AA874952 UI-R-E0-cl-g-03-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-E0-cl-g- 03-Q-UI /clone_end=3 /gb=AA874952 /gi=2979900 /ug=Rn.3185 /len=541	
AA8749 90	11283	No Rat Protein Found.	BC003042	11284	XP_035 810	11285	93.78	ESTs, Weakly similar to T25404 hypothetical protein T28C8.1 [C.elegans]	rc_AA874980 UI-R-E0-cl-g-02-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-E0-cl-g- 02-Q-UI /clone_end=3 /gb=AA874980 /gi=2979938 /ug=Rn.3493 /len=570	
AA8750 32	11288	No Rat Protein Found.	AA579711	11287	No Human Protein Found.		91.96	EST(not recognised)	rc_AA875032 UI-R-E0-cl-g-09-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- E0-cl-g-09-Q-UI /clone_end=3 /gb=AA875032 /gi=2979980 /ug=Rn.3212 /len=563	
AA8750 59	11288	No Rat Protein Found.	R67025	11289	No Human Protein Found.		92.91	EST(not recognised)	rc_AA875059 UI-R-E0-cl-g-04-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-E0-cl-g- 04-Q-UI /clone_end=3 /gb=AA875059 /gi=2980007 /ug=Rn.3224 /len=490	
AA8750 90	11290	No Rat Protein Found.	NM_0175 95	11291	NP_060 065	11292	90	I-kappa-B- Interacting Ras-like protein 2	rc_AA875090 UI-R-E0-cl-g-01-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-E0-cl-g- 01-Q-UI /clone_end=3 /gb=AA875090 /gi=2980038 /ug=Rn.16038 /len=481	
AA8751 21	11293	Q62725	AK055329	11295	A58358		95.41	CCAAT binding factor of CBF-C/NFY C	rc_AA875121 UI-R-E0-cl-g-06-Q-UI.s2 Rattus norvegicus cDNA, 3 end /clone=UI-R- E0-cl-g-06-Q-UI /clone_end=3 /gb=AA875121 /gi=2980089 /ug=Rn.1457 /len=573	Nuclear. transcription factor Y subunit gamma (NF-Y C)(Nuclear factor YC) (NF- YC) (CCAAT- binding transcription factorsubunit C) (CBF-C).

Table 2.

AA8751 71	11298	No Rat Protein Found.	NM_0325 20	11297	NP_115 909	11298	64	ESTs, Weakly similar to T45062 hypothetical protein c316G12.3 [H.sapiens]	rc_AA875171 UI-R-E0-cs-f-12-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-E0-cs-f- 12-Q-UI /clone_end=3 /gb=AA875171 /gi=2980119 /ug=Rn.2814 /len=458
AA8752 05	11299	No Rat Protein Found.	BC007882	11300	P55884	11301	93.48	ESTs, Highly similar to EUKARYOTIC TRANSLATIO N INITIATION FACTOR 3 SUBUNIT 9 [H.sapiens]	rc_AA875205 UI-R-E0-cu-d-11-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- E0-cu-d-11-Q-UI /clone_end=3 /gb=AA875205 /gi=2980153 /ug=Rn.2829 /len=542
AA8752 63	11302	No Rat Protein Found.	AF015308	11303	g320196 4	11304	90.45	ESTs, Highly similar to cell cycle- regulated factor p78 [H.sapiens]	rc_AA875283 UI-R-E0-cs-a-08-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- E0-cs-a-08-Q-UI /clone_end=3 /gb=AA875263 /gi=2980211 /ug=Rn.2727 /len=452
AA8752 75	11305	No Rat Protein Found.	AA761673	11306	No Human Protein Found.		87.5	EST(not recognised)	rc_AA875275 UI-R-E0-cs-c-01-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- E0-cs-c-01-Q-UI /clone_end=3 /gb=AA875275 /gi=2980223 /ug=Rn.24936 /len=535
AA8752 88	11307	No Rat Protein Found.	AI807080	11308	No Human Protein Found.		89.79	EST(not recognised)	rc_AA875288 UI-R-E0-cs-d-10-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- E0-cs-d-10-Q-UI /clone_end=3 /gb=AA875288 /gi=2980238 /ug=Rn.2791 /len=480
AA8753 16	11309	No Rat Protein Found.	AI287376	11310	No Human Protein Found.		91.34	EST(not recognised)	rc_AA875318 UI-R-E0-cn-g-04-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- E0-cn-g-04-Q-UI /clone_end=3 /gb=AA875316 /gi=2980264 /ug=Rn.2877 /len=450

Table 2.

AA8753 48	11311	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	EST(not recognised)	rc_AA875348 UI-R-EO-co-b-08-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- EO-co-b-06-Q-UI /clone_end=3 /gb=AA875348 /gi=2980286 /ug=Rn.2887 /len=455
AA8755 11	11312	No Rat Protein Found.	BF980184	11313	93.27 EST(not recognised)	rc_AA875511 UI-R-EO-ct-o-10-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-EO-ct-o- 10-Q-UI /clone_end=3 /gb=AA875511 /gi=2980459 /ug=Rn.2840 /len=376
AA8755 59	11314	No Rat Protein Found.	AL117499	11315	98.98 EST (RIKEN cDNA)	rc_AA875559 UI-R-EO-cm-b-02-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- EO-cm-b-02-Q-UI /clone_end=3 /gb=AA875559 /gi=2980507 /ug=Rn.2370 /len=465
X77209	11318	CAA54 424	11317 XM_00418 7	XP_004 187	88 Heat shock protein 70	rc_AA875620 UI-R-EO-cv-d-12-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R- EO-cv-d-12-Q-UI /clone_end=3 /gb=AA875620 /gi=2980568 /ug=Rn.2978 /len=387
AA8913 11	11318	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	EST(not recognised)	rc_AA891311 EST195114 Rattus norvegicus cDNA, 3 end /clone=RHEAS32 /clone_end=3 /gb=AA891311 /gi=3018190 /ug=Rn.7739 /len=453
AA8913 14	11319	No Rat Protein Found.	AF176330	11320	87 alphaCP-4 (PCBP4)	rc_AA891314 EST195117 Rattus norvegicus cDNA, 3 end /clone=RHEAS38 /clone_end=3 /gb=AA891314 /gi=3018193 /ug=Rn.2683 /len=442
AA8915 78	11322	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	EST(not recognised)	rc_AA891578 EST195381 Rattus norvegicus cDNA, 3 end /clone=RKAE19 /clone_end=3 /gb=AA891578 /gi=3018457 /ug=Rn.19937 /len=410
AA8915 80	11323	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	EST(not recognised)	rc_AA891580 EST195383 Rattus norvegicus cDNA, 3 end /clone=RKAE21 /clone_end=3 /gb=AA891580 /gi=3018459 /ug=Rn.22698 /len=488

Table 2.

AF2623 20	11324	Q9JMS 3	11325	AV651040	11326	XP_029 519	92.48	AA891591	rc_AA891591 EST195394 Rattus norvegicus cDNA, 3' end /clone=RKIAE33 /clone_end=3 /gb=AA891591 /gi=3018470 /ug=Rn.8124 /len=398	Mitochondrial intermembrane space. TRANSLOC ATED TO THE NUCLEUS UPON INDUCTION OF APOPTOSIS	Programmed cell death protein 8, mitochondrial precursor (EC 1. --)(Apoptosis- inducing factor).
NM_01 3006	11327	NP_037 138	11328	BE018412	11329	NP_006 321	92.42	AA891633	rc_AA891633 EST195436 Rattus norvegicus cDNA, 3' end /clone=RKIAE86 /clone_end=3 /gb=AA891633 /gi=3018512 /ug=Rn.14899 /len=214		
AA8917 13	11331	P36427	11332	AA093491	11333	P52790	90.32		rc_AA891713 EST195516 Rattus norvegicus cDNA, 3' end /clone=RKIAF86 /clone_end=3 /gb=AA891713 /gi=3018592 /ug=Rn.3567 /len=450		60S ribosomal protein L13a.
NM_03 1777	11335	NP_113 965	11336	X55666	11337	P22415	86	AA891717	rc_AA891717 EST195520 Rattus norvegicus cDNA, 3' end /clone=RKIAF80 /clone_end=3 /gb=AA891717 /gi=3018598 /ug=Rn.10845 /len=435		
AA8918 02	11339	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			rc_AA891802 EST195605 Rattus norvegicus cDNA, 3' end /clone=RKIAH01 /clone_end=3 /gb=AA891802 /gi=3018681 /ug=Rn.8316 /len=648		



Table 2.

AA8918 21	11340	No Rat Protein Found.	AF070638	11341	AAH013 93	11342	92.79	EST (human hypothetical protein, clone MGC:782 IMAGE:30513 97)	AA891872	rc_AA891821 EST195824 Rattus norvegicus cDNA, 3' end /clone=RKIAH25 /clone_end=3 /gb=AA891821 /gi=3018700 /ug=Rn.8111 /len=646			
AA8918 38	11343	No Rat Protein Found.	No human homolog found.	No	Human Protein Found.	11346	89.52	EST (RIKEN cDNA)	AA891872	rc_AA891839 EST195842 Rattus norvegicus cDNA, 3' end /clone=RKIAH45 /clone_end=3 /gb=AA891839 /gi=3018718 /ug=Rn.1787 /len=620			
AA8918 42	11344	No Rat Protein Found.	BC005192	11345	AAF642 74	11346	89.52	BM-018	AA891872	rc_AA891842 EST195845 Rattus norvegicus cDNA, 3' end /clone=RKIAH53 /clone_end=3 /gb=AA891842 /gi=3018721 /ug=Rn.14714 /len=591			
Z49204	11347	Q61941	11348	11349	Q13423	11350	86	ESTs, Highly similar to NAD(P) TRANSHYDR OGENASE, MITOCHOND RIAL PRECURSOR [M.musculus]	AA891872	rc_AA891872 EST195875 Rattus norvegicus cDNA, 3' end /clone=RKIAH93 /clone_end=3 /gb=AA891872 /gi=3018751 /ug=Rn.3128 /len=614	OUTSIDE THE MITOCHON DRIAL INNER MEMBRANE ON THE MATRIX SIDE.	NAD(P) transhydrogena se, mitochondrial precursor (EC 1.6.1.2)(Pyridine nucleotide transhydrogena se) (Nicotinamide nucleotide transh ydrogenase).	
AA8919 11	11351	Q63532	11352		g685073		85.85	Small proline- rich protein gene		rc_AA891911 EST195714 Rattus norvegicus cDNA, 3' end /clone=RKIAI48 /clone_end=3 /gb=AA891911 /gi=3018790 /ug=Rn.14720 /len=383			
AY0250 68	11353	AAK117 17	11354	11355	P06749	11356	94.72	ESTs, Highly similar to TRANSFORM ING PROTEIN RHOC [M.musculus]	AA891940	rc_AA891940 EST195743 Rattus norvegicus cDNA, 3' end /clone=RKIAI82 /clone_end=3 /gb=AA891940 /gi=3018819 /ug=Rn.3508 /len=523			

Table 2.

BC005419	11357	AAH05419	11358	No Human		No Human Protein Found.	Mus musculus, Similar to Interferon- $\gamma$ Induced GTPase	AA891944	rc_AA891944 EST195747 Rattus norvegicus cDNA, 3' end /clone=RKJA187 /clone_end=3 /gb=AA891944 /gi=3018823 /ug=Rn.8128 /len=605
AA891962	11359	No Rat Protein Found.		No human homolog found.		No Human Protein Found.	RIKEN full-length cDNA mouse		rc_AA891962 EST195765 Rattus norvegicus cDNA, 3' end /clone=RKJAK10 /clone_end=3 /gb=AA891962 /gi=3018841 /ug=Rn.14723 /len=244
AA892083	11360	No Rat Protein Found.		No human homolog found.		No Human Protein Found.	EST(not recognised)		rc_AA892083 EST195886 Rattus norvegicus cDNA, 3' end /clone=RKJAM16 /clone_end=3 /gb=AA892083 /gi=3018862 /ug=Rn.8130 /len=489
AA892132	11361	No Rat Protein Found.		NIM_018467	11362	AAH08455	Uncharacterized hematopoietic stem/progenitor cell protein MDS032		rc_AA892132 EST195935 Rattus norvegicus cDNA, 3' end /clone=RKJAM73 /clone_end=3 /gb=AA892132 /gi=3018011 /ug=Rn.2957 /len=490
AA892149	11364	No Rat Protein Found.		No human homolog found.		No Human Protein Found.	EST(not recognised)		rc_AA892149 EST195952 Rattus norvegicus cDNA, 3' end /clone=RKJAM93 /clone_end=3 /gb=AA892149 /gi=3019028 /ug=Rn.22240 /len=486
AA892154	11365	NP_037282	11366	NIM_006454	11367	Q14582	Mad4 homolog (human)		rc_AA892154 EST195957 Rattus norvegicus cDNA, 3' end /clone=RKJAN02 /clone_end=3 /gb=AA892154 /gi=3019033 /ug=Rn.3279 /len=386
AA892257	11369	No Rat Protein Found.		No human homolog found.		No Human Protein Found.	EST (slight homology to human aryl hydrocarbon receptor)		rc_AA892257 EST196060 Rattus norvegicus cDNA, 3' end /clone=RKJAO27 /clone_end=3 /gb=AA892257 /gi=3019136 /ug=Rn.22718 /len=604

Table 2.

NM_01 2591	11370	IP23570	11371	X14454	11372	P10814	11373	86.81	ESTs, Highly similar to INTERFERON SEQUENCE BINDING PROTEIN [M.musculus] EST (mouse chromosome)	AA892259	rc_AA892259 EST196082 Rattus norvegicus cDNA, 3 end /clone=RKIAO29 /clone_end=3 /gb=AA892259 /gi=3019138 /ug=Rn.3765 /len=625	Nuclear.	Interferon regulatory factor 1 (IRF-1).
AA8922 71	11374	No Rat Protein Found.		No human homolog found.	No Human Protein Found.						rc_AA892271 EST196074 Rattus norvegicus cDNA, 3 end /clone=RKIAO45 /clone_end=3 /gb=AA892271 /gi=3019150 /ug=Rn.3767 /len=665		
AA8922 73	11375	No Rat Protein Found.		No human homolog found.	No Human Protein Found.				EST(not recognised)	AA892287	rc_AA892273 EST196076 Rattus norvegicus cDNA, 3 end /clone=RKIAO47 /clone_end=3 /gb=AA892273 /gi=3019152 /ug=Rn.19941 /len=529		
AF3211 30	11376	AAK111 83	11377	U31814	11378	Q82769	11379	92.12	Histone deacetylase 2		rc_AA892297 EST196100 Rattus norvegicus cDNA, 3 end /clone=RKIAO73 /clone_end=3 /gb=AA892297 /gi=3019176 /ug=Rn.1797 /len=640		
AA8922 98	11380	CSRTA	11381	AF251049	11382	S64705	11383	95.29	ESTs, Weakly similar to PEPTIDYL- PROLYL CIS- TRANS ISOMERASE A [R.norvegicus]		rc_AA892298 EST196101 Rattus norvegicus cDNA, 3 end /clone=RKIAO74 /clone_end=3 /gb=AA892298 /gi=3019177 /ug=Rn.14747 /len=601		
AA8922 99	11384	No Rat Protein Found.		No human homolog found.	No Human Protein Found.				EST(not recognised)		rc_AA892299 EST196102 Rattus norvegicus cDNA, 3 end /clone=RKIAO75 /clone_end=3 /gb=AA892299 /gi=3019178 /ug=Rn.1708 /len=665		
AF3298 27	11385	AAK321 42	11386	BC012596	11387	O15509	11388	88.62	Zyxin	AA892332	rc_AA892332 EST196135 Rattus norvegicus cDNA, 3 end /clone=RKIAO18 /clone_end=3 /gb=AA892332 /gi=3019211 /ug=Rn.14750 /len=191		

Table 2.

AA8923 90	11399	054902	11390	AB004857	11391	P48281	11392	89.74	Solute carrier family 11 member 2 (natural resistance- associated macrophage protein 2)	rc_AA892390 EST196193 Rattus norvegicus cDNA, 3' end /clone=RKJAP83 /clone_end=3 /gb=AA892390 /gi=3019269 /ug=Rn.3557 /len=501	Integral membrane protein .	Natural resistance- associated macrophage protein 2 (NRAMP 2) (Metalion transporter DCT1).
AA8923 94	11393	No Rat Protein Found.		AK057016	11394	No Human Protein Found.		100	EST(not recognised)	rc_AA892394 EST196197 Rattus norvegicus cDNA, 3' end /clone=RKJAP90 /clone_end=3 /gb=AA892394 /gi=3019273 /ug=Rn.4183 /len=609		
AA8924 14	11395	AAF143 45	11396	AF047033	11397	AAD383 22	11398	85	Sodium bicarbonate cotransporter 3 (SLC4A7)	rc_AA892414 EST196217 Rattus norvegicus cDNA, 3' end /clone=RKJAP16 /clone_end=3 /gb=AA892414 /gi=3019283 /ug=Rn.25345 /len=448		
AA8924 86	11395	A36690		Y00839	11400	A32609	11401	79	ESTs, Weakly similar to A36690 sucrose alpha- glucosidase [R.norvegicus]	rc_AA892486 EST196289 Rattus norvegicus cDNA, 3' end /clone=RKIAS04 /clone_end=3 /gb=AA892486 /gi=3019365 /ug=Rn.1112 /len=555		
NIM_01 9793	11402	Q8QY3 3	11403	AAF08362		O60637	11404	94	Mus musculus transmembran e 4 superfamily member 8	rc_AA892498 EST196301 Rattus norvegicus cDNA, 3' end /clone=RKIAS19 /clone_end=3 /gb=AA892498 /gi=3019377 /ug=Rn.998 /len=617	Integral membrane protein .	Transmembrane 4 superfamily, member 8 (Tetraspanin 3) (Tspan- 3)(Tetraspanin TM4-A) (OSP- TM4-A) (OSP- associated protein-1) (OAP- 1).

Table 2.

AA8925 20	11405	No Rat Protein Found.		No human homolog found.		No Human Protein Found.	11408	94.78	ESTs, Weakly similar to B39066 proline-rich protein 15 - rat [R.norvegicus]	EST(not recognised)	rc_AA892520 EST196323 Rattus norvegicus cDNA, 3' end /clone=RKIAS43 /clone_end=3 /gb=AA892520 /gi=3019399 /ug=Rn.9118 /len=547	Cytoplasmic.	Tubulin alpha-1 chain.
AA8925 31	11406	B39066		AL136746		11407	11408	94.78	ESTs, Weakly similar to B39066 proline-rich protein 15 - rat [R.norvegicus]	EST(not recognised)	rc_AA892531 EST196334 Rattus norvegicus cDNA, 3' end /clone=RKIAS55 /clone_end=3 /gb=AA892531 /gi=3019410 /ug=Rn.23798 /len=559		
AA8925 48	11409	P02551	11410	X01703	11411	A23035	11414	92.96	Alpha-tubulin (28 on d.s.)	EST(not recognised)	rc_AA892548 EST196351 Rattus norvegicus cDNA, 3' end /clone=RKIAS73 /clone_end=3 /gb=AA892548 /gi=3019427 /ug=Rn.14764 /len=618		
AA8925 50	11412	No Rat Protein Found.		AK024048	11413	No Human Protein Found.	11414	92.96		EST(not recognised)	rc_AA892550 EST196353 Rattus norvegicus cDNA, 3' end /clone=RKIAS75 /clone_end=3 /gb=AA892550 /gi=3019428 /ug=Rn.4284 /len=566		
AA8927 59	11415	1SFC		Y09568	11416	O00161	11417	90.64	Synaptosomal- associated protein, 23 kD		rc_AA892759 EST196582 Rattus norvegicus cDNA, 3' end /clone=RKIAW89 /clone_end=3 /gb=AA892759 /gi=3019638 /ug=Rn.14789 /len=467	Elongation factor 2 (EF-2).	Tubulin alpha-1 chain.
AA8927 74	11418	No Rat Protein Found.		No human homolog found.		No Human Protein Found.	11422	66	Lysozyme	EST(not recognised)	rc_AA892774 EST196577 Rattus norvegicus cDNA, 3' end /clone=RKIAX17 /clone_end=3 /gb=AA892774 /gi=3019653 /ug=Rn.14792 /len=635		
NM_01 2771	11419	NP_036 903	11420	NM_0002 39	11421	P00685	11422	66			rc_AA892775 EST196578 Rattus norvegicus cDNA, 3' end /clone=RKIAX18 /clone_end=3 /gb=AA892775 /gi=3019654 /ug=Rn.2283 /len=711		
AA8928 01	11423	P05197	11424	M19897	11425	P13639	11426	99	Eukaryotic translation elongation factor 2		rc_AA892801 EST196604 Rattus norvegicus cDNA, 3' end /clone=RKIAX44 /clone_end=3 /gb=AA892801 /gi=3019680 /ug=Rn.3610 /len=528		

Table 2.

AA8928 18	11427	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	11430	58	ESTs, Weakly similar to S70642 ubiquitin ligase Nedd4 - rat [R.norvegicus]	rc_AA892818 EST196621 Rattus norvegicus cDNA, 3' end /clone=RK1AX63 /clone_end=3 /gb=AA892818 /gi=3019697 /ug=Rn.14795 /len=543
AA8928 20	11428	S70642	AB007899	11429	BAA237 11	11430	ESTs, Weakly similar to S70642 ubiquitin ligase Nedd4 - rat [R.norvegicus]	rc_AA892820 EST196623 Rattus norvegicus cDNA, 3' end /clone=RK1AX65 /clone_end=3 /gb=AA892820 /gi=3019699 /ug=Rn.1761 /len=590
AA8928 35	11431	No Rat Protein Found.	AK027592	11432	JC1235	93.82	ESTs, Moderately similar to TRANSCRIPT ION FACTOR BTF3 [M.musculus]	rc_AA892835 EST196638 Rattus norvegicus cDNA, 3' end /clone=RK1AX82 /clone_end=3 /gb=AA892835 /gi=3019714 /ug=Rn.3613 /len=570
AA8928 54	11433	No Rat Protein Found.	AF044197	11434	O43927	11435	ESTs, Weakly similar to B LYMPHOCYT E CHEMOATTR ACTANT PRECURSOR [M.musculus]	rc_AA892854 EST196657 Rattus norvegicus cDNA, 3' end /clone=RK1AY12 /clone_end=3 /gb=AA892854 /gi=3019733 /ug=Rn.6917 /len=591
AA8928 68	11436	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	11440	93.45	EST(not recognised)	rc_AA892868 EST196671 Rattus norvegicus cDNA, 3' end /clone=RK1AY30 /clone_end=3 /gb=AA892868 /gi=3019747 /ug=Rn.14797 /len=528
AA8928 95	11437	P11174	11438 AA434278	11439	R3HU15	11440	Ribosomal protein S15	rc_AA892895 EST196698 Rattus norvegicus cDNA, 3' end /clone=RK1AY64 /clone_end=3 /gb=AA892895 /gi=3019774 /ug=Rn.3391 /len=508
								40S ribosomal protein S15 (RIG protein).

Table 2.

AA8928 97	11441	2E+06	XM_00284 4	11442	XP_002 844	11443	67	Homo sapiens procollagen- lysine	AA892987	rc_AA892887 EST198700 Rattus norvegicus cDNA, 3' end /clone=RK1A767 /clone_end=3 /gb=AA892887 /gi=3019776 /ug=Rn.12845 /len=553
AA8928 59	11444	No Rat Protein Found.	AY028508	11445	No Human Protein Found.	11446	87.89	Mus musculus 10 days embryo cDNA, RIKEN	AA892989	rc_AA892989 EST198762 Rattus norvegicus cDNA, 3' end /clone=RK1BA36 /clone_end=3 /gb=AA892989 /gi=3019838 /ug=Rn.19446 /len=454
AK0181 58	11447	No Rat Protein Found.	No human homolog found.		No Human Protein Found.			RIKEN full- length cDNA mouse	AA892987	rc_AA892987 EST198770 Rattus norvegicus cDNA, 3' end /clone=RK1BA44 /clone_end=3 /gb=AA892987 /gi=3019846 /ug=Rn.1936 /len=378
BC0038 47	11448	AAH03 847	11448 AB024518	11450	BAA758 92	11451	51	(EST) Similar to glycoengin 2 [Mus musculus]	AA892986	rc_AA892986 EST198789 Rattus norvegicus cDNA, 3' end /clone=RK1BA73 /clone_end=3 /gb=AA892986 /gi=3019865 /ug=Rn.1927 /len=472
AA8928 93	11452	AAF687 08	11453 XM_04764 1		XP_047 841		73	Mus musculus HMG domain protein HMGX2 (Hmgx2)	AA892993	rc_AA892993 EST198796 Rattus norvegicus cDNA, 3' end /clone=RK1BA82 /clone_end=3 /gb=AA892993 /gi=3019872 /ug=Rn.12892 /len=496
AA8928 99	11454	No Rat Protein Found.	No human homolog found.		No Human Protein Found.			EST(not recognised)	AA892999	rc_AA892999 EST198802 Rattus norvegicus cDNA, 3' end /clone=RK1BA90 /clone_end=3 /gb=AA892999 /gi=3019878 /ug=Rn.13463 /len=465
AA8930 40	11455	No Rat Protein Found.	No human homolog found.		No Human Protein Found.			EST (not recognized)	AA893040	rc_AA893040 EST198843 Rattus norvegicus cDNA, 3' end /clone=RK1BB41 /clone_end=3 /gb=AA893040 /gi=3019919 /ug=Rn.13467 /len=414
AA8931 60	11456	No Rat Protein Found.	No human homolog found.		No Human Protein Found.			EST(not recognised)	AA893160	rc_AA893160 EST198963 Rattus norvegicus cDNA, 3' end /clone=RK1BC91 /clone_end=3 /gb=AA893160 /gi=3020039 /ug=Rn.13480 /len=493

Table 2.

AA8931 83	11457	No Rat Protein Found.	No human homolog found.	S57447	11458	63	ESTs, Weakly similar to S57447 HPBRII-7 protein [H.sapiens]	rc_AA893183 EST196986 Rattus norvegicus cDNA, 3' end /clone=RKIBD25 /clone_end=3 /gb=AA893183 /gi=3020062 /ug=Rn.24460 /len=491
NP_031 434		NM_00 7408	NM_0011 22	11459 Q99541	11460	76	ESTs, Moderately similar to ADIPOSE DIFFERENTI ATION- RELATED PROTEIN [M.musculus]	rc_AA893280 EST197083 Rattus norvegicus cDNA, 3' end /clone=RKIBE43 /clone_end=3 /gb=AA893280 /gi=3020159 /ug=Rn.3182 /len=480
AA8933 20	11461	No Rat Protein Found.	No human homolog found.	No Human Protein Found.			EST(not recognised)	rc_AA893320 EST197123 Rattus norvegicus cDNA, 3' end /clone=RKIBF04 /clone_end=3 /gb=AA893320 /gi=3020189 /ug=Rn.13340 /len=370
AA8933 53	11462	No Rat Protein Found.	No human homolog found.	No Human Protein Found.			ESTs, Weakly similar to T15946 hypothetical protein F01F1.9 [C.elegans]	rc_AA893353 EST197156 Rattus norvegicus cDNA, 3' end /clone=RKIBF40 /clone_end=3 /gb=AA893353 /gi=3020232 /ug=Rn.3051 /len=348
AA8933 57	11463	No Rat Protein Found.	BF980403	11464		92.66	EST(not recognised)	rc_AA893357 EST197160 Rattus norvegicus cDNA, 3' end /clone=RKIBF44 /clone_end=3 /gb=AA893357 /gi=3020236 /ug=Rn.19948 /len=434
AF1690 33	11465	AAF127 56	11466 XM_00949 4	11467 XP_009 494	11468	85	Protein kinase (Sgk2)	rc_AA893436 EST197239 Rattus norvegicus cDNA, 3' end /clone=RLIAB44 /clone_end=3 /gb=AA893436 /gi=3020315 /ug=Rn.3685 /len=452



Table 2.

AA8936 41	11469	Q9QXQ7	11470	AL390088	11471	P41221	11472	89.05	ESTs, Highly similar to WNT-5A PROTEIN PRECURSOR [R.norvegicus]	rc_AA893641 EST197444 Rattus norvegicus cDNA, 3' end /clone=RPLAC90 /clone_end=3 /gb=AA893641 /gi=3020520 /ug=Rn.3699 /len=508	
AA8936 62	11473	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			EST(not recognised)	rc_AA893662 EST197465 Rattus norvegicus cDNA, 3' end /clone=RPLA116 /clone_end=3 /gb=AA893662 /gi=3020541 /ug=Rn.14817 /len=457	
AA8936 91	11474	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			EST (not recognised)	rc_AA893691 EST197494 Rattus norvegicus cDNA, 3' end /clone=RPLA148 /clone_end=3 /gb=AA893691 /gi=3020570 /ug=Rn.14822 /len=475	
AA8937 33	11475	S40148		M34480	11476	P08514	11477	86.86	ESTs, Weakly similar to S40148 Integrin alpha-7A chain - rat [R.norvegicus]	rc_AA893733 EST197538 Rattus norvegicus cDNA, 3' end /clone=RPLAK02 /clone_end=3 /gb=AA893733 /gi=3020612 /ug=Rn.14827 /len=400	
AA8937 43	11478	No Rat Protein Found.		A1092788	11479	P04541	11480	89.32	EST(not recognised)	rc_AA893743 EST197549 Rattus norvegicus cDNA, 3' end /clone=RPLAK14 /clone_end=3 /gb=AA893743 /gi=3020622 /ug=Rn.8002 /len=520	
AK0183 49	11481	Q61686	11482	L07515	11483	P45973	11484	94	ESTs, Highly similar to CBX5 CHROMOB X PROTEIN HOMOLOG 5 [M.musculus]	rc_AA893788 EST197591 Rattus norvegicus cDNA, 3' end /clone=RPLAK59 /clone_end=3 /gb=AA893788 /gi=3020667 /ug=Rn.18377 /len=440	Nuclear . Chromobox protein homolog 5 (Heterochromatin protein 1 homolog alpha)(HP1 alpha).
AK0144 49	11485	BAB29359	11486	NM_018202	11487	NP_060672	11488	98	RIKEN full-length cDNA (mouse)	rc_AA893811 EST197614 Rattus norvegicus cDNA, 3' end /clone=RPLAK87 /clone_end=3 /gb=AA893811 /gi=3020690 /ug=Rn.14832 /len=464	

Table 2.

AA8938 69	11489	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	95	ESTs, Weakly similar to T16084 hypothetical protein F16H11.1 [C.elegans]	rc_AA893869 EST197672 Rattus norvegicus cDNA, 3' end /clone=RPLAM85 /clone_end=3 /gb=AA893869 /gi=3020748 /ug=Rn.14614 /len=451
AA8938 70	11490	No Rat Protein Found.	M11167	11491	11491	28S ribosomal RNA gene (2 on d.s.)	rc_AA893870 EST197673 Rattus norvegicus cDNA, 3' end /clone=RPLAM85 /clone_end=3 /gb=AA893870 /gi=3020749 /ug=Rn.11229 /len=417
AA8939 80	11492	No Rat Protein Found.	AL050155	11493	11493	EST(not recognised)	rc_AA893980 EST197783 Rattus norvegicus cDNA, 3' end /clone=RPLAO19 /clone_end=3 /gb=AA893980 /gi=3020859 /ug=Rn.7498 /len=484
AA8938 84	11494	No Rat Protein Found.	NM_0307 78	11495	11496	Homo Sapiens hypothetical protein PRO1331	rc_AA893984 EST197787 Rattus norvegicus cDNA, 3' end /clone=RPLAO23 /clone_end=3 /gb=AA893984 /gi=3020863 /ug=Rn.21428 /len=443
AA8940 29	11497	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	93.8	EST(not recognised)	rc_AA894029 EST197832 Rattus norvegicus cDNA, 3' end /clone=RPLAO74 /clone_end=3 /gb=AA894029 /gi=3020808 /ug=Rn.13512 /len=498
AA8941 48	11498	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	94.67	Mixed cDNA - Apollipoprotein A-IV / 28S ribosomal RNA	rc_AA894148 EST197951 Rattus norvegicus cDNA, 3' end /clone=RSPAR57 /clone_end=3 /gb=AA894148 /gi=3021027 /ug=Rn.15739 /len=447
AA8941 68	11499	No Rat Protein Found.	D87695	11500	11501	PHD finger protein 3 (PHF3)	rc_AA894168 EST197971 Rattus norvegicus cDNA, 3' end /clone=RSPAR89 /clone_end=3 /gb=AA894168 /gi=3021047 /ug=Rn.25343 /len=428

Table 2.

AA894199	11502	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	11506	90.59	EST	AA894207	rc_AA894199 EST198002 Rattus norvegicus cDNA, 3' end /clone=RSPAS58 /clone_end=3 /gb=AA894199 /gi=3021078 /ug=Rn.22765 /len=555
AF202453	11503	AAF17574	11504 AF079564	11505 O75604	11508	90.59	ESTs, Moderately similar to UBIQUITIN CARBOXYL-TERMINAL HYDROLASE 18 (UBIQUITIN-SPECIFIC PROCESSING PROTEASE 18) [M.musculus]	AA894207	rc_AA894207 EST198010 Rattus norvegicus cDNA, 3' end /clone=RSPAS77 /clone_end=3 /gb=AA894207 /gi=3021086 /ug=Rn.806 /len=630
AA894282	11507	No Rat Protein Found.	No human homolog found.	No Human Protein Found.			EST(not recognised)		rc_AA894282 EST198085 Rattus norvegicus cDNA, 3' end /clone=RSPAU66 /clone_end=3 /gb=AA894282 /gi=3021161 /ug=Rn.3995 /len=552
AA894292	11508	No Rat Protein Found.	No human homolog found.	No Human Protein Found.			EST(not recognised)		rc_AA894292 EST198095 Rattus norvegicus cDNA, 3' end /clone=RSPAW06 /clone_end=3 /gb=AA894292 /gi=3021171 /ug=Rn.19450 /len=599
NM_017033	11509	P38652	11510 BC019920	11511 P36871	11512	89.84	phosphoglucomutase 1	AA894296	rc_AA894296 EST198099 Rattus norvegicus cDNA, 3' end /clone=RSPAW17 /clone_end=3 /gb=AA894296 /gi=3021175 /ug=Rn.3760 /len=600
									Phosphoglucomutase (EC 5.4.2.2) (Glucose phosphomutase) (PGM).

Table 2.

AA8943 30	11513	P15791	11514	AF071569	11515	Q13557	11516	92.9	Ca++/calmodulin-dependent protein kinase II, delta subunit (30 on d.s.)		rc_AA894330 EST198133 Rattus norvegicus cDNA, 3' end /clone=RSPAV76 /clone_end=3 /gb=AA894330 /gi=3021209 /ug=Rn.122 /len=501	Calcium/calmodulin-dependent protein kinase type II delta chain (EC2.7.1.123) (CaM-kinase II delta chain) (CaM kinase II delta subunit)(CaMK-II delta subunit).
AA8982 53	11517	P30009	11518	AU141403	11519	P50458	11520	97.14	Myristoylated alanine-rich protein kinase C substrate		rc_AA898253 UI-R-E0-cz-g-07-Q-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R-E0-cz-g-07-Q-UI /clone_end=3 /gb=AA898253 /gi=3034607 /ug=Rn.9560 /len=410	Myristoylated alanine-rich C-kinase substrate (MARCKS).
BC0057 86	11521	P00375	11522	X00855	11523	I37287		91	ESTs, Highly similar to DIHYDROFOLATE REDUCTASE [M.musculus]	AA900413	rc_AA900413 UI-R-E0-dl-e-12-Q-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R-E0-dl-e-12-Q-UI /clone_end=3 /gb=AA900413 /gi=3035787 /ug=Rn.15056 /len=449	Dihydrofolate reductase (EC 1.5.1.3).
AA9249 09	11524	P25094	11525	M94048	11526	Q01453	11527	91.3	Peripheral myelin protein		rc_AA924909 UI-R-A1-eg-b-11-Q-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R-A1-eg-b-11-Q-UI /clone_end=3 /gb=AA924909 /gi=3072045 /ug=Rn.1476 /len=557	Peripheral myelin protein 22 (PMP-22) (CD25 protein) (SR13 myelinprotein).
NM_03 1660	11528	O35186	11529	X82153	11530	P43235	11531	87.8	Cathepsin K	AA925246	rc_AA925246 UI-R-A1-eh-h-08-Q-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R-A1-eh-h-08-Q-UI /clone_end=3 /gb=AA925246 /gi=3072382 /ug=Rn.5598 /len=513	Cathepsin K precursor (EC 3.4.22.38).

Table 2.

AA925506	11532	PA3425	11533	BC014466	11534	O60262	11535	87.25	Guanine nucleotide binding protein (G protein), gamma 7 subunit	AA925506 UI-R-A1-ep-d-03-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-A1-ep-d-03-Q-UI /clone_end=3 /gb=AA925506 /gi=3072642 /ug=Rn.11335 /len=415	Guanine nucleotide-binding protein G(I)/G(S)/G(O) gamma-7 subunit.
AA925556	11536	B46132		NM_016274	11537	XP_053147		91.3	ESTs, Highly similar to B46132 c-Jun leucine zipper Interactive (cDNA JZA-20) - mouse (fragment), mRNA sequence [Rattus norvegicus]	rc_AA925556 UI-R-A1-em-h-12-O-UI.s1 UI-R-A1 Rattus norvegicus cDNA clone UI-R-A1-em-h-12-O-UI 3 similar to gi 423404 pir B46132 c-Jun leucine zipper Interactive (cDNA JZA-20) - mouse (fragment), mRNA sequence [Rattus norvegicus]	
X56600	11538	CAA39937	11539	XM_033941	11542	XP_033941		76	SOD-2 gene for manganese-containing superoxide dismutase	rc_AA926129 UI-R-A1-ep-f-08-Q-UI.s1 UI-R-A1 Rattus norvegicus cDNA clone UI-R-A1-ep-f-08-Q-UI 3 similar to gi 57272 emb X56600 RNSOD2 Rat SOD-2 gene for manganese-containing superoxide dismutase, mRNA sequence [Rattus norvegicus]	
AA926242	11540	P19814	11541	BC008461	11542	O43493	11543	82.29	Trans-Golgi network integral membrane protein TGN38	rc_AA926242 UI-R-A1-ep-d-09-Q-UI.s1 Rattus norvegicus cDNA, 3 end /clone=UI-R-A1-ep-d-09-Q-UI /clone_end=3 /gb=AA926242 /gi=3073378 /ug=Rn.11349 /len=394	TRANS-GOLGI NETWORK. Trans-golgi network integral membrane protein TGN38 precursor.
AA943677	11544	g1763308		AK054981	11545	g2432000	11546	88.82	Munc13-3	rc_AA943677 EST199176 Rattus norvegicus cDNA, 3 end /clone=RBRA48 /clone_end=3 /gb=AA943677 /gi=3103593 /ug=Rn.11278 /len=520	
NM_024152	11547	P26438	11548	M57763	11549	P26438	11550	94.88	ADP-ribosylation factor 6	rc_AA944324 EST199823 Rattus norvegicus cDNA, 3 end /clone=REMAF41 /clone_end=3 /gb=AA944324 /gi=3104240 /ug=Rn.6893 /len=559	ADP-ribosylation factor 6.

Table 2.

X17163	11551	CAA35041	11552	XM_001472	11553	XP_001472	11554	78	c-Jun oncogene mRNA for transcription factor AP-1	AA945867	rc_AA945867 EST201366 Rattus norvegicus cDNA, 3' end /clone=RLUAW28 /clone_end=3 /gb=AA945867 /gi=3105783 /ug=Rn.7672 /len=477	Endoplasmic reticulum.	Alpha-mannosidase (EC 3.2.1.24) (Alpha-D-mannoside mannosidase) (AMAN).
AA946384	11555	P21139	11556	BC010081	11557	g6138294	11558	90.2	Endoplasmic reticulum alpha-mannosidase	rc_AA946384 EST201883 Rattus norvegicus cDNA, 3' end /clone=RLUBH49 /clone_end=3 /gb=AA946384 /gi=3106300 /ug=Rn.11301 /len=576			
AA946439	11558	P02304	11560	NM_003539	11561	P02304	11562	88.28	H4 gene for somatic histone H4	rc_AA946439 EST201838 Rattus norvegicus cDNA, 3' end /clone=ROVAR17 /clone_end=3 /gb=AA946439 /ug=Rn.10465 /len=663			
NM_021767	11563	Q63373	11564	AF084842	11565	P58400	11566	94.29	Non-processed neurexin 1-beta	AA956149	rc_AA956149 UI-R-E1-fg-b-03-Q-UI.s2 Rattus norvegicus cDNA, 3' end /clone=UI-R-E1-fg-b-03-Q-UI /clone_end=3 /gb=AA956149 /ug=Rn.8930 /len=471	Type I membrane protein .	Neurexin 1-beta precursor (Neurexin 1-beta).
AA956941	11567	Q62655	11568	AK026674	11569	P15884	11570	92.83	Rb DNA-binding protein	rc_AA956941 UI-R-E1-f-c-10-Q-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R-E1-f-c-10-Q-UI /clone_end=3 /gb=AA956941 /ug=Rn.10450 /len=492	Nuclear .	Transcription factor 4 (Immunoglobulin n transcription factor 2) (ITF-2)(RITF-2) (SL3-3 enhancer factor 2) (SEF-2) (Fragment).	
AA963857	11571	P13265	11572	L47125	11573	P51654	11574	89.19	Glypican 3	rc_AA963857 UI-R-E1-gk-a-07-Q-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R-E1-gk-a-07-Q-UI /clone_end=3 /gb=AA963857 /ug=Rn.9717 /len=408	Attached to the membrane by a GPI-anchor.	Glypican-3 precursor (Intestinal protein OCI-5).	

Table 2.

AI0088 52	11575	P20001	11576	AA076035	11577	P04720	11578	98.36	Eukaryotic translation elongation factor 1 alpha 2	tc_AI008852 EST203303 Rattus norvegicus cDNA, 3' end /clone=REMBE33 /clone_end=3 /gb=AI008852 /ug=Rn.965 /len=531	ANCHORED AT THE ENDOPLAS MIC RETICULUM MEMBRANE BY PHOSPHATI DYLNOSTO L VIA ETHANOLA MINE BRIDGING.	Elongation factor 1-alpha 1 (EF-1-alpha-1) (Elongation factor 1 A- 1)(eEF1A-1) (Elongation factor Tu) (EF- Tu).
AI0088 88	11579	P01041	11580	AW45114 5	11581	P04080	11582	89.36	Cystatin beta	tc_AI008898 EST203339 Rattus norvegicus cDNA, 3' end /clone=REMBE66 /clone_end=3 /gb=AI008898 /ug=Rn.1233 /len=528	Cytoplasmic.	Cystatin B (Liver thiol proteinase inhibitor) (Stafin B) (Cystatinbeta).
AI0091 47	11583	No Rat Protein Found.	11580	AJ249980	11584	CAB965 37	11585	86	EST (human hypothetical protein)	tc_AI009147 EST203598 Rattus norvegicus cDNA, 3' end /clone=REMBJ52 /clone_end=3 /gb=AI009147 /ug=Rn.221 /len=429		
AI0091 91	11586	PT0199	11580	M14333	11587	P06241	11588	99	Fyn proto- oncogene	tc_AI009191 EST203642 Rattus norvegicus cDNA, 3' end /clone=REMBK67 /clone_end=3 /gb=AI009191 /ug=Rn.2432 /len=484		
NM_02 2519	11589	P17475	11590	XM_02835 8	11591	XP_028 358	11592	78	Alpha-1- protease inhibitor	tc_AI010453 EST204904 Rattus norvegicus cDNA, 3' end /clone=RLUBZ64 /clone_end=3 /gb=AI010453 /ug=Rn.1419 /len=612	Extracellular.	Alpha-1- antiproteinase precursor (Alpha-1- antitrypsin) (Alpha-1- proteinase inhibitor).
L34078	11593	No Rat Protein Found.	11590	No human homolog found.	No	Human Protein Found.	11592	87	Mus musculus DNA repair protein (XRCC1) gene	tc_AI010580 EST205031 Rattus norvegicus cDNA, 3' end /clone=RMUAC088 /clone_end=3 /gb=AI010580 /ug=Rn.13632 /len=377		

Table 2.

AI012275	11594	g31010	AK026295	11595	g329418	85.83	Developmentally regulated protein mRNA	rc_AI012275 EST206726 Rattus norvegicus cDNA, 3' end /clone=RPLAU85 /clone_end=3 /gb=AI012275 /ug=Rn.4099 /len=686	Cytoplasmic.	Serine/threonine protein phosphatase 2A, catalytic subunit, alpha isoform (EC 3.1.3.16) (PP2A-alpha).
AI012585	11596	P13353	J03804	11598	P05323	99	Protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform	rc_AI012595 EST207048 Rattus norvegicus cDNA, 3' end /clone=RPLAZ36 /clone_end=3 /gb=AI012595 /ug=Rn.1271 /len=641	Cytoplasmic.	Serine/threonine protein phosphatase 2A, catalytic subunit, alpha isoform (EC 3.1.3.16) (PP2A-alpha).
AF361476	11600	AAK30621	U65093	11602	Q99967	96.64	Transcription factor MIRG1	rc_AI014091 EST207648 Rattus norvegicus cDNA, 3' end /clone=RSPBE78 /clone_end=3 /gb=AI014091 /ug=Rn.221 /len=608	Cytoplasmic.	Serine/threonine protein phosphatase 2A, catalytic subunit, alpha isoform (EC 3.1.3.16) (PP2A-alpha).
BC003217	11604	AAH03217	No human	11605	No Human Protein Found.		ESTs, Weakly similar to CAEEL PUTATIVE PHOSPHATIDYL SERINE DECARBOXYLASE PROENZYME [C.elegans]	rc_AI014094 EST207649 Rattus norvegicus cDNA, 3' end /clone=RSPBE87 /clone_end=3 /gb=AI014094 /ug=Rn.221 /len=569	Cytoplasmic.	Serine/threonine protein phosphatase 2A, catalytic subunit, alpha isoform (EC 3.1.3.16) (PP2A-alpha).
AI070026	11606	P31246	NM_006735	11607	O43364	95.69	Homeobox gene A11	rc_AI070026 UI-R-C1-In-b-10-O-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R-C1-In-b-10-O-UI /clone_end=3 /gb=AI070026 /ug=Rn.11240 /len=502	Nuclear.	Homeobox protein Hox-A2 (Hox-1.11).
AI070967	11610	P49911	X75090	11612	P39887	88	Acid nuclear phosphoprotein p32 (leucine rich)	rc_AI070967 UI-R-C2-na-4-08-O-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R-C2-na-4-08-O-UI /clone_end=3 /gb=AI070967 /ug=Rn.10123 /len=448	Nuclear.	Leucine-rich acidic nuclear protein.



Table 2.

AI071299	11614	Q08876	11615	S81439	11616	Q13118	11617	87.11	TGFB Inducible early growth response	rc_A1071289 UI-R-C1-ko-d-03-Q-J1.s2 Rattus norvegicus cDNA, 3 and /clone=UI-R-C1-ko- d-03-Q-J1 /clone_end=3 /gb=A1071289 /ug=Rn.2398 /len=485	Nuclear .	Transforming growth factor- beta-inducible early growth response protein 1 (TGFB- 1) Inducible early growth response protein 1 (TIEG- 1)(Kruppel-like factor 10) (Zinc finger transcription factor homologCPG
AI073204	11618	P42655	11619	BC000179	11620	P42655	11621	99.41	Tyrosine 3- monooxygena se/tryptophan 5- monooxygena se activation/protei n, epsilon polypeptide	rc_A1073204 UI-R-Y0-X-a-09-Q-J1.s1 Rattus norvegicus cDNA, 3 and /clone=UI-R-Y0-X-a- 09-Q-J1 /clone_end=3 /gb=A1073204 /ug=Rn.4225 /len=356	Cytoplasmic.	14-3-3 protein epsilon (Mitochondrial Import stimulation factor Lsubunit) (Protein kinase C inhibitor protein-1) (KCIP- 1) (14-3-3E).
AI102031	11622	Q08839	11623	U68485	11624	Q98888	11625	93.72	Amphiphysin, amph2 (22 on d.s.)	rc_A1102031 EST211320 Rattus norvegicus cDNA, 3 and /clone=RBRBY15 /clone_end=3 /gb=A1102031 /gl=3706866 /ug=Rn.17098 /len=583	Nuclear and cytoplasmic .	Myc box dependent interacting protein 1 (Bridging Integrator 1)(Amphiphysin- like protein) (Amphiphysin II).

Table 2.

AI1025 62	11626	P02803	11627	BG260238	11628	SMHU1 E	93.1	Metallothionein-1 (mt-1)	rc_AI102562 EST211851 Rattus norvegicus cDNA, 3' end /clone=REMBP28 /clone_end=3 /gb=AI102562 /gi=3707306 /ug=Rn.2714 /len=405		Metallothionein-1 (MT-1).
AI1045 44	11629	P04844	11630	BG498827	11631	R4HU17	90.56	Ribosomal protein S17	rc_AI104544 EST213833 Rattus norvegicus cDNA, 3' end /clone=RHECE89 /clone_end=3 /gb=AI104544 /gi=3708885 /ug=Rn.6920 /len=476	40S ribosomal protein S17.	
AI1368 91	11633	P17431	11634	AI902540	11635	Q00411	97.14	Butyrate response factor 1	rc_AI136891 UI-R-C2p-of-12-O-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R-C2p-of- 12-O-UI /clone_end=3 /gb=AI136891 /ug=Rn.6142 /len=449	Nuclear.	Butyrate response factor 1 (TIS11B protein) (EGF- inducible proteinCMG1).
NIM_03 1576	11637	P00388	11638	BF001401	11639	Q13571	91.01	P450 (cytochrome) oxidoreductase	rc_AI137856 UI-R-CO-ik-a-10-O-UI.s1 Rattus norvegicus cDNA, 3' end /clone=UI-R-CO-ik-a- 10-O-UI /clone_end=3 /gb=AI137856 /ug=Rn.11359 /len=384	ENDOPLAS- MIC RETICULUM ANCHORED TO THE ER MEMBRANE BY ITS N- TERMINAL HYDROPHO- BIC REGION.	NADPH- cytochrome P450 reductase (EC 1.6.2.4) (CPR) (P450R).
U06179	11641	P30120	11642	XM_033879		XP_033 879	76	Tissue inhibitor of metalloproteinase 1 (TIMP1) (4 on d.s.)	rc_AI169327 EST215162 Rattus norvegicus cDNA, 3' end /clone=RKIBQ31 /clone_end=3 /gb=AI169327 /gi=3705635 /ug=Rn.8841 /len=644	Secreted.	Metalloproteinase inhibitor 1 precursor (TIMP- 1).
AI1703 79	11643	No Rat Protein Found.		AJ303079	11644	Q9Y2D5	89	AKAP-2	rc_AI170379 EST216305 Rattus norvegicus cDNA, 3' end /clone=RLUCH58 /clone_end=3 /gb=AI170379 /gi=3710419 /ug=Rn.15696 /len=688		

Table 2.

AI1710 90	11646	P97519	11647	BC010570	11648	P35914	11649	85.73	3-hydroxy-3- methylglutaryl CoA lyase	AI171562	rc_AI171090 EST217038 Rattus norvegicus cDNA, 3' end /clone=RMUBG03 /clone_end=3 /gb=AI171090 /gi=3711130 /ug=Rn.12297 /len=551	Mitochondrial matrix	Hydroxymethylglu- taryl-CoA lyase, mitochondrial precursor (EC 4.1.3.4)(HMG- CoA lyase) (HL) (3-hydroxy-3- methylglutarate- CoA lyase).
NM_02 0080	11650	NP_064 485	11651	BC002873	11652	AAH028 73	11653	79	Nuclear protein E3-3 orf1	AI171562	rc_AI171562 EST217527 Rattus norvegicus cDNA, 3' end /clone=RMUBM56 /clone_end=3 /gb=AI171562 /gi=3711802 /ug=Rn.3479 /len=436		
X17163	11654	CAA35 084	11655	J04111	11656	AAA591 97	11657	78	c-jun proto oncogene (JUN),	AI175959	rc_AI175959 EST219534 Rattus norvegicus cDNA, 3' end /clone=ROVBH68 /clone_end=3 /gb=AI175959 /ug=Rn.7872 /len=421		
AI1760 52	11658	P29411	11659	AB021870	11660	Q9UJ17	11661	89	Adenylate kinase 3		rc_AI176052 EST219628 Rattus norvegicus cDNA, 3' end /clone=ROVB190 /clone_end=3 /gb=AI176052 /ug=Rn.60 /len=587	Mitochondrial matrix	GTP:AMP phosphotransfer ase mitochondrial (EC 2.7.4.10) (AK3).
AI1764 22	11662	No Rat Protein Found.				NP_004 444	11663	95.07	ESTs, Highly similar to 2006241A flavoprotein ubiquitinone oxidoreductas e [H.sapiens]		rc_AI176422 EST220006 Rattus norvegicus cDNA, 3' end /clone=ROVBR53 /clone_end=3 /gb=AI176422 /ug=Rn.4044 /len=430		
AI1767 10	11684	P51179	11665	S81243	11666	Q82570	11667	93.75	Nuclear receptor subfamily 4, group A, member 3		rc_AI176710 EST220303 Rattus norvegicus cDNA, 3' end /clone=ROVBV80 /clone_end=3 /gb=AI176710 /ug=Rn.10410 /len=632	Nuclear.	Nuclear hormone receptor NOR-1 (Neuron-derived orphan receptor 1).

Table 2.

AI1771 61	11668	OS4968	11669	S74017	11670	Q16236	11671	82	NF-E2-related factor 2	rc_AI177161 EST220768 Rattus norvegicus cDNA, 3' end /clone=ROVCB60 /clone_end=3 /gb=AI177161 /ug=Rn.10987 /len=616	Nuclear .	Nuclear factor erythroid 2 related factor 2 (NF-E2 related factor 2)(NFE2- related factor 2) (Nuclear factor, erythroid derived 2, like 2).
AI1773 66	11672	P49134	11673	BG222775	11674	Q14622	11675	94.64	Integrin, beta 1	rc_AI177366 EST220985 Rattus norvegicus cDNA, 3' end /clone=RPLBY20 /clone_end=3 /gb=AI177366 /ug=Rn.1832 /len=618	Type I membrane protein.	Integrin beta-1 precursor (Fibronectin receptor beta subunit)(CD29 antigen) (Integrin VLA-4 beta subunit).
AI1782 08	11676	P52591	11677	AC006014	11678	g469998 4	11679	70	Integral membrane glycoprotein	rc_AI178208 EST221873 Rattus norvegicus cDNA, 3' end /clone=RPLCN52 /clone_end=3 /gb=AI178208 /ug=Rn.10474 /len=619	TYPE II MEMBRANE PROTEIN. NUCLEAR PORE MEMBRANE.	Nuclear envelope pore membrane protein POM 121 (Pore membrane protein of 121 kDa) (P145).
AI1789 21	11679	P35559	11680	M21188	11681	P14735	11682	89.5	Insulin degrading enzyme	rc_AI178921 EST222603 Rattus norvegicus cDNA, 3' end /clone=RSPBT27 /clone_end=3 /gb=AI178921 /ug=Rn.10988 /len=614	Cytoplasmic.	Insulin- degrading enzyme (EC 3.4.24.56) (Insulysin) (Insulinase)(ins ulin protease).
AI1803 50	11683	g14365 34	11684	Y18064	11684	Q76024	11685	92.19	CTD-binding SR-like protein IA9	rc_AI180350 EST224094 Rattus norvegicus cDNA, 3' end /clone=RSPCV17 /clone_end=3 /gb=AI180350 /ug=Rn.10530 /len=672		

Table 2.

AI2282 47	11686	P08753	11687	J03004	11688	P04899	11689	98	Guanine nucleotide binding, protein, alpha inhibiting polypeptide 3	rc_A1228247 EST224942 Rattus norvegicus cDNA, 3' end /clone=RBRC538 /clone_end=3 /gb=A1228247 /ug=Rn.4388 /len=623	Guanine nucleotide- binding protein G(K), alpha subunit (G(I) alpha-3).
AI2284 07	11690	P13589	11691	AI039838	11692	Q98853	11693	94.12	Pituitary adenylate cyclase activating polypeptide (41 on d.s.)	rc_A1228407 EST225102 Rattus norvegicus cDNA, 3' end /clone=RBRCU35 /clone_end=3 /gb=A1228407 /ug=Rn.3398 /len=496	Pituitary adenylate cyclase activating polypeptide precursor (PACAP)(Contal- ins: PACAP- related peptide (PRP-48); Pituitary adenylate cyclaseactivatin- g polypeptide- 27 (PACAP-27) (PACAP27); Pituitary aden
AI2286 69	11694	P23978	11695	X54673	11696	P30531	11697	89.45	GABA transporter protein	rc_A1228669 EST225384 Rattus norvegicus cDNA, 3' end /clone=RBRCX86 /clone_end=3 /gb=A1228669 /ug=Rn.10035 /len=592	Sodium- and chloride- dependent GABA transporter 1.

Table 2.

NM_019181	11698	O70436	11699	U68018	11700	Q15796	11701	91.46	MAD homolog 2 (Drosophila)	AI228675	rc_AI228675 EST225370 Rattus norvegicus cDNA, 3 end /clone=RBRCX95 /clone_end=3 /gb=AI228675 /ug=Rn.2755 /len=545	IN THE CYTOPLASM IN THE ABSENCE OF LIGAND; MIGRATION TO THE NUCLEUS WHEN COMPLEXED WITH SMAD4.	Mothers against decapentaplegic homolog 2 (SMAD 2) (Mothers againstDPP homolog 2) (Mad-related protein 2).
D86557	11702	BAA19880	11703	U09578	11704	JC6094	11705	39	ESTs, Moderately similar to S78100 MAPK activated protein kinase (EC 2.7.1.-) 2 (fragment) [M.musculus]	AI229421	rc_AI229421 EST226116 Rattus norvegicus cDNA, 3 end /clone=REMCG14 /clone_end=3 /gb=AI229421 /ug=Rn.8789 /len=542		
AI230130	11706	O35795	11707	U91510	11708	Q9Y5L3	11709	84.5	Testicular ecto ATPase		rc_AI230130 EST226825 Rattus norvegicus cDNA, 3 end /clone=REMC65 /clone_end=3 /gb=AI230130 /ug=Rn.8276 /len=440	Integral membrane protein.	Ectonucleoside triphosphate diphosphohydrolyase 2 (EC 3.6.1.3)(NTPDase2) (Ecto-ATPase) (CD38 antigen-like 1).
AI232477	11710	P30870	11711	AK022537	11712	P30870	11713	94.9	G protein gamma-5 subunit		rc_AI232477 EST229165 Rattus norvegicus cDNA, 3 end /clone=RKICC15 /clone_end=3 /gb=AI232477 /ug=Rn.2695 /len=419		Guanine nucleotide-binding protein G(I)/G(S)/G(O) gamma-5 subunit.

Table 2.

AI2333 65	11714	No Rat Protein Found.	AW16344 4	11715	No Human Protein Found.	90.32	ESTs, Weakly similar to T24956 hypothetical protein T16G1.10 [C.elegans]	AI233749	rc_AI233365 EST230053 Rattus norvegicus cDNA, 3' end /clone=RKIDE13 /clone_end=3 /gb=AI233365 /ug=Rn.23561 /len=480	60S ribosomal protein L30.
K02832	11716	P04845	11717	AF104913	11718	Q04637	100	AI233749	rc_AI233749 EST230437 Rattus norvegicus cDNA, 3' end /clone=RKIDJ59 /clone_end=3 /gb=AI233749 /ug=Rn.5971 /len=462	
NM_03 1688	11720	NP_113 856	11721	XM_02780 9	XP_027 809	57	AI237258	AI237258	rc_AI237258 EST233820 Rattus norvegicus cDNA, 3' end /clone=RPLCV74 /clone_end=3 /gb=AI237258 /ug=Rn.6881 /len=434	
AI6389 84	11722	No Rat Protein Found.	No human homolog found.	No human homolog found.	No Human Protein Found.	EST(not recognised)	EST(not recognised)		Rat mixed-tissue library Rattus norvegicus cDNA clone rx00388 3', mRNA sequence [Rattus norvegicus]	
AI6389 85	11723	No Rat Protein Found.	No human homolog found.	No human homolog found.	No Human Protein Found.	EST(not recognised)	EST(not recognised)		Rat mixed-tissue library Rattus norvegicus cDNA clone rx00148 3', mRNA sequence [Rattus norvegicus]	
NM_03 2613	11724	NP_116 002	11725	NM_0045 43	P20929	65	AI638988	AI638988	Rat mixed-tissue library Rattus norvegicus cDNA clone rx00108 3', mRNA sequence [Rattus norvegicus]	
AI6390 02	11728	No Rat Protein Found.	No human homolog found.	No human homolog found.	No Human Protein Found.	ESTs, Moderately similar LIM AND SH3 DOMAIN PROTEIN 1 [M.musculus]	EST(not recognised)		Rat mixed-tissue library Rattus norvegicus cDNA clone rx03287 3', mRNA sequence [Rattus norvegicus]	
AI6390 19	11729	No Rat Protein Found.	No human homolog found.	No human homolog found.	No Human Protein Found.	EST(not recognised)	EST(not recognised)		Rat mixed-tissue library Rattus norvegicus cDNA clone rx01107 3', mRNA sequence [Rattus norvegicus]	

Table 2.

AI6390 22	11730	No Rat Protein Found.	No human homolog found.	No Human Protein Found.		EST(not recognised)	Rat mixed-tissue library Rattus norvegicus cDNA clone rx01427 3, mRNA sequence [Rattus norvegicus]
AI6390 88	11731	No Rat Protein Found.	No human homolog found.	No Human Protein Found.		EST(not recognised)	Rat mixed-tissue library Rattus norvegicus cDNA clone rx00384 3, mRNA sequence [Rattus norvegicus]
AI6391 32	11732	No Rat Protein Found.	BG722716	11733	94.5	EST(not recognised)	Rat mixed-tissue library Rattus norvegicus cDNA clone rx01263 3, mRNA sequence [Rattus norvegicus]
AI6391 39	11734	No Rat Protein Found.	No human homolog found.	No Human Protein Found.		EST(not recognised)	Rat mixed-tissue library Rattus norvegicus cDNA clone rx04483 3, mRNA sequence [Rattus norvegicus]
AI6391 48	11735	No Rat Protein Found.	NM_0190 41	11736	87.15	ESTs, Weakly similar to MITOCHOND RIAL PEPTIDE CHAIN RELEASE FACTOR 1 PRECURSOR [H.sapiens]	Rat mixed-tissue library Rattus norvegicus cDNA clone rx02422 3, mRNA sequence [Rattus norvegicus]
AF2202 84	11738	AAF694 79	11739	No Human Protein Found.	91	EST (Mus musculus clone BAC126c8 Rsp28-like protein (Rsp28) and Als splice variant 2 (Als genes)	Rat mixed-tissue library Rattus norvegicus cDNA clone rx0757 3, mRNA sequence [Rattus norvegicus]
AI6392 65	11740	No Rat Protein Found.	No human homolog found.	No Human Protein Found.		EST(not recognised)	Rat mixed-tissue library Rattus norvegicus cDNA clone rx01039 3, mRNA sequence [Rattus norvegicus]



Table 2.

AI6393 31	11741	No Rat Protein Found.		No human homolog found.	11743	No Human Protein Found.		EST (homology with mouse BAC #AC004093)		Rat mixed-tissue library Rattus norvegicus cDNA clone rx00676 3, mRNA sequence [Rattus norvegicus]
AI6393 81	11742	No Rat Protein Found.		AL138478	11743	No Human Protein Found.		EST	88	Rat mixed-tissue library Rattus norvegicus cDNA clone rx01495 3, mRNA sequence [Rattus norvegicus]
AI6393 95	11744	No Rat Protein Found.		No human homolog found.		No Human Protein Found.		EST(not recognised)		Rat mixed-tissue library Rattus norvegicus cDNA clone rx03054 3, mRNA sequence [Rattus norvegicus]
AI6394 25	11745	No Rat Protein Found.		BE792880	11746	No Human Protein Found.		EST(not recognised)	85.05	Rat mixed-tissue library Rattus norvegicus cDNA clone rx00313 3, mRNA sequence [Rattus norvegicus]
AI6394 51	11747	No Rat Protein Found.		No human homolog found.		No Human Protein Found.		EST(not recognised)		Rat mixed-tissue library Rattus norvegicus cDNA clone rx03912 3, mRNA sequence [Rattus norvegicus]
AY0377 63	11748	AAK686 36	11749	XIM_04361 2		XP_043 612		adiponutrin	67	Rat mixed-tissue library Rattus norvegicus cDNA clone rx01430 3, mRNA sequence [Rattus norvegicus]
H31078	11750	No Rat Protein Found.		AK025305	11751	No Human Protein Found.		EST(not recognised)	90.12	rc_H31078 EST104768 Rattus norvegicus cDNA, 3 end /clone=RPCAH15 /clone_end=3 /gb=H31078 /gi=976500 /ug=Rn.22653 /len=313
H31313	11752	No Rat Protein Found.		No human homolog found.		No Human Protein Found.		EST(not recognised)		rc_H31313 EST105230 Rattus norvegicus cDNA, 3 end /clone=RPCAH12 /clone_end=3 /gb=H31313 /gi=976730 /ug=Rn.18180 /len=385
H31351	11753	No Rat Protein Found.		No human homolog found.		No Human Protein Found.		EST(not recognised)		rc_H31351 EST105310 Rattus norvegicus cDNA, 3 end /clone=RPCAH85 /clone_end=3 /gb=H31351 /gi=976768 /ug=Rn.14564 /len=352
H31420	11754	No Rat Protein Found.		AA845957	11755	No Human Protein Found.		EST(not recognised)	85.29	rc_H31420 EST105436 Rattus norvegicus cDNA, 3 end /clone=RPCAH34 /clone_end=3 /gb=H31420 /gi=976837 /ug=Rn.8443 /len=312

Table 2.

H31588	11758	No Rat Protein Found.	AA947174	11757	g222464 3	92.74	ESTs, Moderately similar to KIAA0351 [H.sapiens] EST(not recognised)	rc_H31588 EST105764 Rattus norvegicus cDNA, 3' end /clone=RPCAR49 /clone_end=3 /gb=H31588 /gi=977005 /ug=Rn.25545 /len=343		
H31590	11758	No Rat Protein Found.	No human homolog found.		No Human Protein Found.			rc_H31590 EST105767 Rattus norvegicus cDNA, 3' end /clone=RPCAR52 /clone_end=3 /gb=H31590 /gi=977007 /ug=Rn.14574 /len=498		
H31802	11759	S12207	No human		No Human Protein Found.		EST, Moderately similar to S12207 hypothetical protein [M.musculus]	rc_H31802 EST106213 Rattus norvegicus cDNA, 3' end /clone=RPCAY40 /clone_end=3 /gb=H31802 /gi=977219 /ug=Rn.14594 /len=518		
H31907	11760	P97834	11761	U20285	11762	Q13098	97	R.norvegicus mRNA for mammalian fusca protein	rc_H31907 EST106452 Rattus norvegicus cDNA, 3' end /clone=RPCBC73 /clone_end=3 /gb=H31907 /gi=977324 /ug=Rn.13413 /len=336	Nuclear and cytoplasmic .
H31914	11764	P13383	11765	M60858	11766	P19338	84	Nucleolin	rc_H31914 EST106462 Rattus norvegicus cDNA, 3' end /clone=RPCBC88 /clone_end=3 /gb=H31914 /gi=977331 /ug=Rn.23826 /len=397	
S79169	11768	AAB349 38	11769	NM_0036 29	11770	Q92569	93	Mouse p55PIK=phosphatidylinositol 3-kinase regulatory subunit	rc_H33636 EST109819 Rattus norvegicus cDNA, 3' end /clone=RPNAV07 /clone_end=3 /gb=H33636 /gi=979053 /ug=Rn.14653 /len=411	
H33651	11772	No Rat Protein Found.		No human homolog found.		No Human Protein Found.		EST109846 PC-12 cells, NGF-treated (9 days)	rc_H33651 EST109846 Rattus norvegicus cDNA, 3' end /clone=RPNAV67 /clone_end=3 /gb=H33651 /gi=979088 /ug=Rn.14654 /len=447	

Table 2.

H33660	11773	No Rat Protein Found.	AK058044	11774	No Human Protein Found.	11775	82	EST(not recognised)	rc_H33660 EST109859 Rattus norvegicus cDNA, 3' end /clone=RPNAW03 /clone_end=3 /gb=H33660 /gi=979077 /ug=Rn.3331 /len=389
S45812	11776	180315 9A	M68840	11777	P21397	11778	91	ESTs, Highly similar to 1903159A monoamine oxidase A [R.norvegicus]	S45812 monoamine oxidase A [rats, liver, mRNA Partial, 2104 nt]
S48325	11779	AAB241 51	11780 XM_051310	11781	XP_051310	11782	80	Diabetes- inducible cytochrome P450RLM6, RLM6 (see 257 on this sheet)	S48325 diabetes-inducible cytochrome P450RLM6 [rats, liver, mRNA Partial, 1093 nt]
S49760	11783	JC8124	11784 U51477	11785	Q13574	11786	92	Diacylglycerol kinase	S49760 diacylglycerol kinase [rats, brain, mRNA, 3043 nt]
S57478	11787	ILURT1	11788 X05908	11789	P04083	11790	95	Annexin 1 (p35) (Lipocortin 1)	S57478cds S57440S13 lipocortin I [rats, Genomic, 361 nt, segment 13 of 13]
S59525	11791	AAB264 20	11792 NM_000406	11793	P30968	11794	81	Gonadotropin- releasing hormone receptor	S59525 gonadotropin-releasing hormone receptor [rats, pituitary gland, mRNA, 2256 nt]
S67900	11795	AAB296 78	11796 XM_001408	11799	XP_001408	11800	92	6- phosphofructo- 2- kinase/fructos e-2,6- biphosphatase 2	S67900 fructose 6-phosphate,2- kinase:fructose 2,6-bisphosphatase [rats, brain, mRNA, 3591 nt]
S71021	11797	AAB308 18	11798 X69391	11799	Q02878	11800	67	Malignancy- related C140 product	S71021 malignancy-related C140 product [rats, thyroid FRTL-Tc cells, mRNA Partial, 746 nt]
S79214	11801	191715 0A	11798 X60382	11802	Q03692	11803	88	Collagen alpha 1 type X	S79214cds type X collagen alpha 1 chain {NC1 domain} [rats, Genomic, 491 nt]

Table 2.

S82579	11804	No Rat Protein Found.	No human homolog found.	No Human Protein Found.	Histamine N- tele- methyltransferase	S82579 histamine N-tele-methyltransferase (3 region, exon 4) [rats, Sprague Dawley, liver, mRNA Partial, 185 nt]
U01344	11805	P50297	11806	11807	76	U01344 Rattus norvegicus clone A-2 arylamine N-acetyltransferase mRNA, complete cds /cds=(975,1847) /gb=U01344 /gi=786257 /ug=Rn.11112 /len=2533
U04835	11809	192138 8A	11810	11811	93.07	U04835 Rattus norvegicus CREMdeltaC-G gene, complete cds /cds=(8,460) /gb=U04835 /gi=1256545 /ug=Rn.10251 /len=607
U06230	11813	I59818		11814	88.41	U06230 Rattus norvegicus protein S mRNA, partial cds /cds=(0,1040) /gb=U06230 /gi=497116 /ug=Rn.4845 /len=1589
U09540	11816	Q64678	11817	11818	84.64	U09540 RNU09540 Rattus norvegicus Sprague-Dawley cytochrome P450 (CYP1B1) mRNA, complete cds
U11685	11820	Q62685	11821	11822	92.24	U11685 Rattus norvegicus orphan receptor RLD-1 (rid-1) mRNA, complete cds /cds=(24,1361) /gb=U11685 /gi=555751 /ug=Rn.11209 /len=1723

Cytoplasmic.  
Arylamine N-  
acetyltransferase  
1 (EC 2.3.1.5)  
(Arylamine  
acetylase 1)(N-  
acetyltransferase  
type 1) (NAT-  
1) (AT-1).

Membrane-  
bound.  
Endoplasmic  
reticulum.

Cytochrome  
P450 1B1 (EC  
1.14.14.1)  
(CYP1B1).  
(P450RAP).  
Oxysterols  
receptor LXR-  
alpha (Liver X  
receptor alpha)  
(Nuclear  
orphanreceptor  
LXR-alpha)  
(RLD-1).

Cytochrome  
P450 1b1 (see  
257 on this  
sheet)

Nuclear  
receptor  
subfamily 1,  
group H,  
member 3

Table 2.

U12187	11824	P55043	11825	L24564	11826	P55042	11827	90	Ras-related protein (rad)	U12187 Rattus norvegicus ras-related protein (rad) mRNA, complete cds /cds=(258,1064) /gb=U12187 /gi=595472 /ug=Rn.11189 /len=1421	GTP-binding protein RAD (RAS associated with diabetes) (RAD1).
U14398	11828	P50232	11829	X96783	11830	O00445	11831	42	Synaptotagmin n 4	U14398 Rattus norvegicus synaptotagmin IV homolog mRNA, complete cds /cds=(267,1544) /gb=U14398 /gi=550453 /ug=Rn.11072 /len=2060	Synaptotagmin IV (SyIV).
U15138	11832	Q62698	11833	AF035812	11834	O43237	11835	93.97	LIC-2 dynein light intermediate chain 53/55	U15138 Rattus norvegicus LIC-2 dynein light intermediate chain 53/55 mRNA, complete cds /cds=(5,1498) /gb=U15138 /gi=618664 /ug=Rn.11100 /len=4300	Dynein light intermediate chain 2, cytosolic (LIC53/55) (LIC-2).
U17254	11836	P22829	11837	D49728	11838	P22736	11839	91	Immediate early gene transcription factor NGFI-B	U17254 Rattus norvegicus immediate early gene transcription factor NGFI-B mRNA, complete cds /cds=(212,1903) /gb=U17254 /gi=596053 /ug=Rn.10000 /len=2488	Orphan nuclear receptor HMR (Nerve growth factor induced protein I-B) (NGFI-B) (NUR77).
U17901	11840	P54319	11841	AV720153	11842	g5326866		92.08	Phospholipase A-2-activating protein (plap)	U17901 Rattus norvegicus phospholipase A-2-activating protein (plap) mRNA, complete cds /cds=UNKNOWN /gb=U17901 /gi=1041680 /ug=Rn.22260 /len=2452	Phospholipase A-2-activating protein (PLAP).
U22830	11843	P49651	11844	AF018284	11845	P47900	11846	88.77	P2 purinoreceptor subclass 2Y	U22830 Rattus norvegicus P2Y purinoreceptor mRNA, complete cds /cds=(618,1740) /gb=U22830 /gi=767872 /ug=Rn.10217 /len=3204	P2Y purinoreceptor 1 (ATP receptor) (P2Y1) (Purnergic receptor).

Table 2.

U23056	11847	P16573	11848	M29540	11849	P06731	11850	86.79	Carcinoembryonic antigen-related cell adhesion molecule	U23056 Rattus norvegicus C-CAM4 mRNA, complete cds /cds=(82,510) /gb=U23056 /gi=1353245 /ug=Rn.2382 /len=678	TYPE I MEMBRANE PROTEIN. CANALICULAR DOMAIN OF HEPATOCYTE PLASMA MEMBRANE S.	Ecto-ATPase precursor (Cell-CAM 105) (C-CAM 105) (ATP-colate-carrier protein) (GP110).
U23769	11851	P52944	11852	BC000915	11853	O00151	11854	86.59	LIM protein	U23769 Rattus norvegicus CLP36 (clp36) mRNA, complete cds /cds=(66,1049) /gb=U23769 /gi=1020150 /ug=Rn.11170 /len=1392	Cytoplasmic	PDZ and LIM domain protein 1 (LIM domain protein CLP-36) (C-terminal LIM domain protein 1) (Elfin).
U24489	11855	g1336153		M26856	11856	g180964		70	Tenascin X	U24489 Rattus norvegicus tenascin-X mRNA, partial cds /cds=(0,614) /gb=U24489 /gi=841425 /ug=Rn.10225 /len=793		
U26310	11857	AA667648	11858	NM_022648	11859	NP_072174	11860	97	Tensin (Tns)	U26310 RNU26310 Rattus norvegicus tensin (Tns) mRNA, partial cds		
U26356	11861	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			S100A1 gene	U26356 mRNA RNSHUNA1 Rattus norvegicus S100A1 gene, exon 1		
U27319	11862	AAC52945	11863	NM_000188	11864	P19367	11865	100	Hexokinase 1	U27319 exon RNU27319 Rattus norvegicus type I hexokinase (HK) gene, promoter region and partial cds		
U27518	11866	Q62789	11867	BG203058	11868	g3287473		89.22	UDP-glucuronosyltransferase	U27518 Rattus norvegicus UDP-glucuronosyltransferase mRNA, complete cds /cds=(26,1618) /gb=U27518 /gi=1177817 /ug=Rn.11131 /len=1947	Microsomal.	UDP-glucuronosyltransferase 2B8 precursor, microsomal (EC 2.4.1.17)(UDPGT) (UGT2B-RH4).

Table 2.

U28938	11869	T14328	11870	AF187042	11871	S60813	11872	88.55	Receptor-type protein tyrosine phosphatase D30	U28938 Rattus norvegicus protein tyrosine phosphatase D30 mRNA, complete cds /cds=(62,3712) /gb=U28938 /gi=1144001 /ug=Rn.10163 /len=4871	Nuclear.	Transcription factor E2F5 (E2F-5) (Fragment).
U31668	11873	Q62814	11874	Z78408	11875	Q15329	11876	92.64	Transcription factor E2F-5 mRNA, partial cds	U31668 Rattus norvegicus transcription factor E2F-5 mRNA, partial cds /cds=(0,904) /gb=U31668 /gi=839730 /ug=Rn.10286 /len=1496		
U31866	11877	g1854476		AK021725	11878	g339469		88.61	Rattus norvegicus Nclone10 mRNA (28 on d.s.)	U31866 Rattus norvegicus Nclone10 mRNA /cds=UNKNOWN /gb=U31866 /gi=1216376 /ug=Rn.11164 /len=2657		
U31880	11879	Q62816	11880	AF035280	11881	P49770	11882	92	Eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD)	U31880 Rattus norvegicus eIF-2B beta subunit mRNA, complete cds /cds=(45,1100) /gb=U31880 /gi=1143157 /ug=Rn.5910 /len=1474		Translation Initiation factor eIF-2B beta subunit (eIF-2B GDP-GTPexchange factor).
U32681	11883	A57190	11884	AJ243212	11885	I38006	11886	86.17	Crp-ductin	U32681 Rattus norvegicus ebnerin mRNA, complete cds /cds=(93,3965) /gb=U32681 /gi=975346 /ug=Rn.10107 /len=4344		
NM_019284	11887	NP_062157	11888	AF059274	11889	NP_006565	11890	92.14	Chondroitin sulfate proteoglycan 5 (neuroglycan C)	U33553 Rattus norvegicus neuroglycan C precursor mRNA, complete cds /cds=(12,1646) /gb=U33553 /gi=1061328 /ug=Rn.10148 /len=2107		
U34843	11891	g1236114	11892	U27112	11893	g3551742	11894	88.12	Rattus norvegicus cell cycle progression related D123 mRNA, complete cds (13 on d.s.)	U34843 Rattus norvegicus cell cycle progression related D123 mRNA, complete cds /cds=(53,1063) /gb=U34843 /gi=1236113 /ug=Rn.11096 /len=1683		

Table 2.

U35371	11895	g10160 12	11896	AV724042	11897	Q9NY97	11898	90.43	Neural cell adhesion protein BIG-2 precursor (BIG-2)
U35775	11899	Q62847	11900	D67031	11901	Q9UEY8	11902	92	Adducin 3, gamma (38 on d.s.)
U39943	11903	P51590	11904	U37143	11905	P51589	11906	70	Rattus norvegicus cytochrome P450 pseudogene (CYP2J3P1) mRNA (see 257 on this sheet)
U44948	11907	Q62908	11908	U46006	11909	Q16527	11910	92.95	Smooth muscle cell LIM protein (SmLIM)
U49055	11911	g14385 30	11912	AB029039	11913	g568956 9	11914	88.69	CTD-binding SR-like protein rA8 mRNA
U50736	11915	A44437	11916	BF081129	11917	A57291		93.88	Cardiac ankyrin repeat protein
U35371	Rattus norvegicus neural cell adhesion protein BIG-2 precursor (BIG-2) mRNA, complete cds /cds=(418,3498) /gb=U35371 /gi=1016011 /ug=Rn.10117 /len=4609								Gamma adducin (Adducin-like protein 70) (Protein kinase C binding protein 35H).
U35775	Rattus norvegicus gamma-adducin mRNA, complete cds /cds=(133,2148) /gb=U35775 /gi=1041239 /ug=Rn.9416 /len=2248								
U39943	RNU39943 Rattus norvegicus cytochrome P450 monooxygenase (CYP2J3) mRNA, complete cds								Membrane- bound. Endoplasmic reticulum.
U44948	Rattus norvegicus smooth muscle cell LIM protein (SmLIM) mRNA, complete cds /cds=(54,635) /gb=U44948 /gi=1314350 /ug=Rn.4267 /len=847								Nuclear.
U49055	Rattus norvegicus CTD-binding SR- like protein rA8 mRNA, complete cds /cds=(322,4128) /gb=U49055 /gi=1438529 /ug=Rn.10529 /len=4775								
U50736	RNU50736 Rattus norvegicus cardiac ankyrin repeat responsive protein mRNA, complete cds								Smooth muscle cell LIM protein (Cysteine-rich protein 2) (CRP2).



Table 2.

U51898	11918	P97570	11919	AK001290	11920	g530559 4	90.47	Ca <sup>2+</sup> - independent phospholipase A2	U51898 Rattus norvegicus Ca <sup>2+</sup> - independent phospholipase A2 mRNA, complete cds /cds=(474,2729) /gb=U51898 /gi=1743845 /ug=Rn.5941 /len=3273	Cytoplasmic.	85 kDa calcium- independent phospholipase A2 (EC 3.1.1.4) (PLA2) (Cal- PLA2) (Group VI phospholipase A2) (GVI PLA2).
U53184	11921	No Rat Protein Found.		AB034747	11922	Q88732	83.41	Estrogen- responsive uterine transcript	U53184 Rattus norvegicus estrogen- responsive uterine mRNA, partial sequence /cds=UNKNOWN /gb=U53184 /gi=1278978 /ug=Rn.6940 /len=2006		
U53858	11924	P97571	11925	AK025380	11926	P07384	93.28	Calpain 1	U53858 Rattus norvegicus mu-calpain large subunit (cist) mRNA, complete cds /cds=(41,2182) /gb=U53858 /gi=1784202 /ug=Rn.5037 /len=2917	Cytoplasmic; Translocates to the plasma membrane upon Ca <sup>++</sup> binding .	Calpain 1, large [catalytic] subunit (EC 3.4.22.17) (Calcium- activated neutral proteinase) (CANP) (Mu- type) (muCANP) (Micromolar- calpain).

Table 2.

U54632	11928	P50550	11929	U29092	11930	P60550	11931	93.2	Ubiquitin conjugating enzyme E2	U54632 RNU54632 Rattus norvegicus ubiquitin-conjugating enzyme UbcE2A mRNA, complete cds	Ubiquitin-like protein SUMO-1 conjugating enzyme (EC 6.3.2.19) (SUMO-1- protein ligase) (Ubiquitin carrier protein) (Ubiquitin- conjugating enzy- me UbcE2A) (P18).
U56862	11932	Q62881	11933	AL542378	11934	Q15072	11935	89.47	Pancreas zinc finger protein	U56862 RNU56862 Rattus norvegicus pancreas only zinc finger protein (POZF-1) mRNA, complete cds	Zinc finger protein OZF (POZF-1).
U62897	11936	P15087	11937	BE552042	11938	P16870	11939	92.96	Carboxypeptid- ase D precursor	U62897 Rattus norvegicus carboxypeptidase D precursor (Cpd) mRNA, complete cds /cds=(45,4181) /gb=U62897 /gi=2406562 /ug=Rn.4083 /len=4377	
U65007	11940	P97523	11941	U11813	11942	P08581	11943	92.61	Met proto- oncogene	U65007 Rattus norvegicus hepatocyte growth factor receptor mRNA, complete cds /cds=(0,4148) /gb=U65007 /gi=1679659 /ug=Rn.10617 /len=4189	Hepatocyte growth factor receptor (EC 2.7.1.112) (Met proto-oncogene tyrosine kinase) (c-met) (HGF receptor) (HGF- SF receptor).

Table 2.

U65656	11944	P33436	11945	AU123141	11946	P05455	11947	90.29	Gelatinase A	U65656 Rattus norvegicus gelatinase A mRNA, complete cds /cds=(291,2279) /gb=U65656 /gi=1813502 /ug=Rn.6422 /len=3040	72 kDa type IV collagenase precursor (EC 3.4.24.24) (72 kDagelatinase) (Matrix metalloproteinase-2) (MMP-2) (Gelatinase A).
U67207	11948	S74225		U52912	11949	P48357	11950	87	Leptin receptor (fatty)	U67207 RNU67207 Rattus norvegicus leptin receptor (OB-R) mRNA, partial cds	
U67994	11951	AAB39619	11952	X74330	11953	P48642	11954	90.27	Rattus norvegicus DNA primase small subunit	U67994 Rattus norvegicus DNA primase small subunit mRNA, partial cds /cds=(0,91) /gb=U67994 /gi=1763024 /ug=Rn.10849 /len=410	
U75916	11955	g1839182		AK025185	11956	g5924408		93.02	Zonula occludens 2	U75916 Rattus norvegicus zonula occludens 2 protein (ZO-2) mRNA, partial cds /cds=(0,2443) /gb=U75916 /gi=1839161 /ug=Rn.10965 /len=3329	
U76252	11957	P07314	11958	AL117414	11959	P36269	11960	87.03	Gamma-glutamyltransferase-like activity 1	U76252 RNU76252 Rattus norvegicus gamma glutamyl transpeptidase-related enzyme mRNA, partial cds	
U77829	11961	No Rat Protein Found.		No human homolog found.		No Human Protein Found.			Gase-5 growth arrest homolog	U77829 mRNA RNU77829 Rattus norvegicus gase-5 growth arrest homolog non-translated mRNA sequence	
U82626	11962	AAB86342	11963	NM_005445	11964	NP_005436	11965	89	Chondroitin sulfate proteoglycan 6	U82626 Rattus norvegicus basement membrane-associated chondroitin proteoglycan Bamacan mRNA, complete cds /cds=(89,3664) /gb=U82626 /gi=1785539 /ug=Rn.11074 /len=4104	
U86379	11968	O55197	11967	U28488	11968	Q16561	11969	84.91	Complement component 3a receptor 1	U86379 Rattus norvegicus anaphylatoxin C3a receptor mRNA, complete cds /cds=(128,1550) /gb=U86379 /gi=3015534 /ug=Rn.9772 /len=2071	Integral membrane protein.
U87971	11970	AAB93844	11971	NM_003164	11972	Q13180	11973	95	Syntaxin 5a	U87971 RNU87971 Rattus norvegicus syntaxin 5 mRNA, partial cds	C3a anaphylatoxin chemotactic receptor (C3a-R) (C3AR).

Table 2.

U88036	11974	O35913	11975	U21843	11976	P46721	11977	72	Brain digoxin carrier protein	U88036 Rattus norvegicus brain digoxin carrier protein mRNA, complete cds /cds=(118,2103) /gb=U88036 /gi=2501807 /ug=Rn.5841 /len=3622	Integral membrane protein.	Sodium- independent organic anion transporter 2 (Brain digoxin carrier protein) (Brain-specific organic anion transporter) (OATP-81).
U88324	11978	P54311	11979	AY007113	11980	RGHUB 1	11981	95.71	Guanine nucleotide- binding protein beta	U88324 RNU88324 Rattus norvegicus G protein beta1 subunit (Gb1) mRNA, complete cds		Guanine nucleotide- binding protein G(i)/G(s)/G(t) beta subunit 1(Transducin beta chain 1).
U88986	11982	T34258		U38545	11983	Q13393	11984	88	Phospholipase D gene 1	U88986 RNU88986 Rattus norvegicus phospholipase D 1 mRNA, partial cds		
U89743	11985	AAB498 93	11986	No human		No Human Protein Found.			Rattus norvegicus unknown protein	U89743 Rattus norvegicus unknown protein mRNA, partial cds /cds=(0,251) /gb=U89743 /gi=1890272 /ug=Rn.10718 /len=853		
U89745	11987	AAB498 95	11988	No human		No Human Protein Found.			Rattus norvegicus unknown protein	U89745 Rattus norvegicus unknown protein mRNA, partial cds /cds=(0,283) /gb=U89745 /gi=1895082 /ug=Rn.10720 /len=1114		
U90312	11989	O56207	11990	AL157424	11991	O15056	11992	94.07	Synaptotagmin II	U90312 Rattus norvegicus synaptotagmin II mRNA, complete cds /cds=(55,3801) /gb=U90312 /gi=2708492 /ug=Rn.10868 /len=5033	CYTOPLAS MIC. INTERACTIO N OF ISOFORM 2A WITH OMP25 RESULTS IN LOCALIZATI ON TO THE MITOCHON DRIA.	Synaptotagmin 2 (EC 3.1.3.56) (Synaptic inositol-1,4,5- trisphosphate 5- phosphatase 2).

Table 2.

NM_02 4159	11993	O88797	11994	AK024965	11995	NP_001 334	11998	92.56	DOC-2 p82 isoform	U95178	U95178 Rattus norvegicus DOC-2 p59 isoform mRNA, complete cds /cds=(6,1658) /gb=U95178 /gi=3157994 /ug=Rn.14763 /len=2504	Disabled homolog 2 (DOC-2) (Mitogen- responsive phosphoprotein) (C9).
U97142	11997	Q62897	11998	AF042080	11999	P58159	12000	90.19	Glial cell line- derived neurotrophic factor receptor alpha (42 on d.s.)	U97142 Rattus norvegicus RET ligand 1 (RET1) mRNA, complete cds /cds=(256,1662) /gb=U97142 /gi=2282021 /ug=Rn.6281 /len=3616	Attached to the membrane by a GPI- anchor.	
V01216	12001	P02764	12002	X02544	12003	P02763	12004	51	Rat messenger encoding alpha-1-acid glycoprotein	V01216 Rat messenger encoding alpha-1- acid glycoprotein /cds=(35,652) /gb=V01216 /gi=555559 /ug=Rn.10295 /len=769	Alpha-1-acid glycoprotein precursor (Orosomucoid) (OIMD).	
NM_02 4128	12005	NP_077 042	12006	AW97475 6	12007	No Human Protein Found.	93.69	Brain specific mRNA B (clone p1a75)	V01543	V01543mRNA Rat mRNA fragment isolated from the brain and coding for brain specific peptide /cds=(547,909) /gb=V01543 /gi=56876 /ug=Rn.2865 /len=1136	OX-2 membrane glycoprotein precursor (MRC OX-2 antigen).	
NM_03 1518	12008	P04218	12009	X05323	12010	CAA289 43	12011	69	Cell surface protein (thymocyte, antigen identified by monoclonal antibody MRC- OX2	X01785 Rat thymocyte mRNA for cell surface protein (MRC OX-2) /cds=(24,860) /gb=X01785 /gi=56700 /ug=Rn.7085 /len=2216	Type I membrane protein.	
X02341	12012	CAA26 200	12013	NM_0033 81	12014	P01282	12015	84	Vasoactive intestinal polypeptide (VIP) precursor	X02341 cds RNVIPR Rat mRNA for vasoactive intestinal polypeptide (VIP) precursor		

Table 2.

X02601	12016	P03957	12017	J03209	12018	P08254	12019	83	53 kD polypeptide induced by growth factors (EGF) and oncogenes (H-ras; src; polyoma middle T) /cds=(57,1484) /gb=X02601 /gi=57460 /ug=Rn.10435 /len=1771	X02601 Rat mRNA for 53 kD polypeptide induced by growth factors (EGF) and oncogenes (H-ras; src; polyoma middle T) /cds=(57,1484) /gb=X02601 /gi=57460 /ug=Rn.10435 /len=1771	Stromelysin-1 precursor (EC 3.4.24.17) (Matrix metalloproteinase-3)(MMP-3) (Transin-1) (SL-1) (PTR1 protein).
NM_012988	12020	P04785	12021	BE770246	12022	P37268	12023	87.82	Protein disulfide isomerase (Prolyl 4-hydroxylase, beta polypeptide)	X02918 Rat mRNA for protein disulfide isomerase (PDI; EC 5.3.4.1) /cde=(44,1670) /gb=X02918 /gi=56871 /ug=Rn.4234 /len=2460	Endoplasmic reticulum lumen. Protein disulfide isomerase precursor (PDI) (EC 5.3.4.1) (Prolyl 4-hydroxylase beta subunit) (Cellular thyroid hormone binding protein)(Thyroxine deiodinase) (EC 3.8.1.4) (Iodothyronine 5'-monodeiodinase)
X06769	12024	CAA28837	12025	V01512	12026	CAA24756	12027	77	c-fos protein	X08769cde RNCFOSR Rat c-fos mRNA	Glucose-6-phosphate 1-dehydrogenase (G6PD).
X07467	12028	P05370	12028	X03674	12030	P11413	12031	93	Glucose-6-phosphate dehydrogenase	X07467 Rat mRNA for glucose-6-phosphate dehydrogenase (Gd, EC 1.1.1.49) /cde=(41,1588) /gb=X07467 /gi=58195 /ug=Rn.11040 /len=2306	

Table 2.

X07636	12032	P08290	12033	IM11025	12034	P07307	12035	67	Asialoglycoprotein receptor 2	X07636 Rat mRNA for hepatic lectin /cds=(77,982) /gb=X07636 /g =57066 /ug=Rn.9834 /len=1290	Type II membrane protein.	Asialoglycoprotein receptor R2/3 (Hepatic lectin 2/3) (RHL-2) (ASGP-R)(ASGPR).
NM_013069	12036	P10247	12037	NM_004355	12038	P04233	12039	67	CD74 antigen (invariant polypeptide of major histocompatibility class II antigen-associated) (9 on d.s.)	X13044 Rat mRNA for MHC-associated invariant chain gamma /cds=(52,702) /gb=X13044 /g =56497 /ug=Rn.10475 /len=1150	Type II membrane protein.	H-2 class II histocompatibility antigen, gamma chain (MHC class II associated invariant chain) (Ia antigen-associated invariant chain)(II) (CD74 antigen).
X13722	12040	P35962	12041	S70123	12042	AAF24515	12043	88.68	Rat mRNA for LDL-receptor	X13722 Rat mRNA for LDL-receptor /cds=(153,2782) /gb=X13722 /g =56569 /ug=Rn.10483 /len=3037	Type I membrane protein.	Low-density lipoprotein receptor precursor (LDL receptor).
X17012	12044	P01346	12045	X00910	12046	P01344	12047	90	Insulin-like growth factor II (somatomedin A)	X17012mRNA RNI GF2 Rat (IGFII) gene for Insulin-like growth factor II		
X17053	12048	CAA34901	12049	NM_005408	12050	Q98616	12051	53	Immediate-early serum-responsive JE gene (5 on d.s.)	X17053mRNA RATJE Rat Immediate-early serum-responsive JE gene		

Table 2.

X52840	12052	P18666	12053	X64304	12054	P19105	12055	97	Myosin regulatory light chain	X52840 Rat mRNA for smooth muscle myosin RLC-B /cds=(17,535) /gb=X52840 /gi=56702 /ug=Rn.2967 /len=1113	Myosin regulatory light chain 2-B, smooth muscle isoform (MyosinRLC-B).
X53054	12056	P18211	12057	No human homolog found.	166796		72	RT1.D beta chain	Sequence 53 from patent US 5677149	X53054 Rat mRNA for RT1.D beta chain /cds=(15,809) /gb=X53054 /gi=57169 /ug=Rn.11299 /len=1197	RT1 class II histocompatibilit y antigen, D-1 beta chain precursor.
NM_02 2688	12058	P18889	12059	No Human	No	Human Protein Found.			X53231	X53231 Rat mRNA for preoptic regulatory factor-1 (PORF-1) /cds=(26,139) /gb=X53231 /gi=56949 /ug=Rn.19843 /len=689	Putative preoptic regulatory factor- 1 precursor (PORF-1).  Secreted.
X55812	12060	P20272	12061	X81121	12062	P21554	12063	93.46	Cannabinoid receptor 1	X55812completeSeq Rat mRNA for SKR6 gene, a CB1 cannabinoid receptor /cds=UNKNOWN /gb=X55812 /gi=1552375 /ug=Rn.10579 /len=5465	Cannabinoid receptor 1 (CB1) (CB-R) (Brain-type cannabinoid receptor).
X56596	12064	P29826	12065	BM72735 5	12066	P05538	12067	96.99	MHC class II antigen RT1.B- 1 beta-chain	X56596 Rat mRNA for MHC class II antigen RT1.B-1 beta-chain /cds=(7,798) /gb=X56596 /gi=57152 /ug=Rn.20089 /len=1374	RT1 class II histocompatibilit y antigen, B-1 beta chain precursor(RT1. B-beta(1)).
X57764	12068	P21451	12069	X99250	12070	P24530	12071	88.64	ET-B Endothelin receptor	X57764 Rat mRNA for ET-B endothelin receptor /cds=(203,1528) /gb=X57764 /gi=56122 /ug=Rn.11412 /len=1892	Endothelin B receptor precursor (ET- B) (Endothelin receptorNon- selective type).





Table 2.

X61654	12098	P28648	12099	X07982	12100	P08962	12101	78	Cd63 antigen	X63434	X61654 Rat mRNA for ad1-antigen /cds=(60,776) /gb=X61654 /gi=55601 /ug=Rn.11058 /len=860	Integral membrane protein. Lysosomal. SECRETOR Y GRANULES AND PLASMA MEMBRANE OF MANY CULTURED CELL LINES.	CD63 antigen (AD1 antigen).
X62322	12102	P23785	12103	X62320	12104	P28799	12105	89.93	Granulin		X62322 R.norvegicus mRNA for epithelin 1 and 2 /cds=(30,1799) /gb=X62322 /gi=56108 /ug=Rn.5820 /len=2137		Granulins precursor (Acrogranin) [Contains: Granulin 1 (Granulin G); Granulin 2 (Granulin F); Granulin 3 (Granulin B) (Epithelin 2); Granulin 4 (Granulin A) (Epithelin 1); Granulin 5 (Granulin C); Granul
NM_01 3085	12106	P28598	12107	D00244	12108	P00749	12109	86.49	Urinary plasminogen activator, urokinase	X63434	X63434 R.norvegicus mRNA for urokinase- type plasminogen activator /cds=(107,1405) /gb=X63434 /gi=57465 /ug=Rn.6064 /len=2386		Urokinase-type plasminogen activator precursor (EC 3.4.21.73) (uPA)(U- plasminogen activator).

Table 2.

X64563	12110	P29524	12111	M18082	12112	P05120	12113	82.34	Plasminogen activator inhibitor 2 type A	X64563cds RNPA12AMR R.norvegicus mRNA for plasminogen activator inhibitor 2 type A (PA12A)	CYTOPLASMIC OR EXTRACELLULAR	Plasminogen activator inhibitor-2, type A (PA12A).
X65036	12114	Q63258	12115	AF032108	12116	Q13683	12117	90.21	Alpha 7A integrin (10, 35 on d.s.)	X65036 R.norvegicus mRNA for H36-alpha7 integrin alpha chain /cds=(0,3320) /gb=X65036 /gi=56392 /ug=Rn.3238 /len=3754	Type I membrane protein.	Integrin alpha-7 (H36-alpha7).
X65454	12118	Q64375	12119	U47621	12120	Q92791	12121	93.83	SC65 synaptonemal complex protein	X65454 R.norvegicus mRNA for SC65 synaptonemal complex protein /cds=(19,1314) /gb=X65454 /gi=57191 /ug=Rn.10547 /len=1407	NUCLEAR. LOCATED IN THE PAIRING ZONE OF THE SYNAPTONEMAL COMPLEX	Synaptonemal complex protein SC65.
X66022	12122	P56163	12123	U43843	12124	Q82782	12125	93.5	Neuro-d4	X66022mRNA#1 RNND4P R.norvegicus mRNA for neuro-D4 protein	Nuclear and cytoplasmic.	Zinc-finger protein neuro-d4.
NM_012923	12126	P39950	12127	NM_004060	12128	P51959	12129	90	Cyclin G1	X70871 R.norvegicus mRNA for cyclin G /cds=(0,894) /gb=X70871 /gi=432867 /ug=Rn.11360 /len=885	Nuclear.	Cyclin G1 (Cyclin G).
X73371	12130	Q63203	12131	X62473	12132	P31984	12133	54	Fc gamma receptor	X73371 R.norvegicus mRNA for Fc gamma receptor /cds=(124,881) /gb=X73371 /gi=397576 /ug=Rn.10363 /len=1430	Type I membrane protein.	Low affinity immunoglobulin gamma FC region receptor (FC-gamma RII) (FCRII) (IGG FC receptor II beta).

Table 2.

NM_01 2736	12134	P35571	12135	AK022696	12136	XP_002 442	92.07	Glycerol-3- phosphate dehydrogenase 2 (mitochondrial )	X78593	X78593 R.norvegicus mRNA for glycerol-3- phosphate dehydrogenase /cds=(91,2274) /gb=X78593 /gi=603582 /ug=Rn.10167 /len=2400	Mitochondrial	Glycerol-3- phosphate dehydrogenase, mitochondrial precursor(EC 1.1.98.5) (GPD- M) (GPDH-M).
X78603	12137	Q63055	12138	X91504	12139	Q13785	12140	97	ARP1 mRNA for ARF- related protein	X78603 R.norvegicus (Sprague Dawley) ARP1 mRNA for ARF-related protein /cds=(137,742) /gb=X78603 /gi=1103618 /ug=Rn.10973 /len=925		ARF-related protein (ARP).
X88699	12141	CAA61 846	12142	NM_0035 54	12143	NP_003 545	12144	57	TPCR10 protein	X88699cds RNTPCR10P R.norvegicus mRNA for TPCR10 protein		
X89703	12145	CAA61 850	12146	X88675	12147	CAA618 22	12148	46	TPCR19 protein	X89703cds RNTPCR19P R.norvegicus mRNA for TPCR19 protein		
X85986	12149	g19068 14		J04056	12150	P16152	12151	80	Carbonyl reductase	X85986mRNA#1 R.norvegicus CBR gene /cds=(55,888) /gb=X85986 /gi=1217650 /ug=Rn.3425 /len=1012		
X96437	12152	No Rat Protein Found.		X96438	12153	CAA653 04	12154	82	PRG1 gene (contains a transcription factor domain)	X96437mRNA RNPRG1 R.norvegicus PRG1 gene		
Y00396	12155	TVRTM C	12156	M13929	12157	I57605		90	Avian myelocytomat osis viral (v- myc) oncogene homolog	Y00396mRNA RNCMYC Rat c-myc oncogene and flanking regions		
Y07704	12158	CAA68 971	12159	BC017869	12160	XP_039 078	12161	85.37	Best5 protein	Y07704 Rattus norvegicus BEST5 mRNA for hypothetical protein /cds=(5,1087) /gb=Y07704 /gi=3135886 /ug=Rn.14882 /len=3595		

Table 2.

Y09333	12162	055171	12163	L40401	12164	P49763	12165	71	Mitochondrial very-long- chain acyl- CoA thioesterase	Y09333 R.norvegicus mRNA for mitochondrial very-long-chain acyl-CoA thioesterase /cds=(100,1461) /gb=Y09333 /gl=2832738 /ug=Rn.11326 /len=1711	Mitochondrial matrix	Acyl coenzyme A thioester hydrolase, mitochondrial precursor(EC 3.1.2.2) (Very- long-chain acyl- CoA thioesterase) (MTE-I).
Y16188	12168	CAA76 114	12167	Y16187	12168	CAA761 13	12169	90	XCE protein	Y16188 HSY16188 Rattus norvegicus mRNA for XCE protein, partial	INTRACELL ULAR AND ASSOCIATE D WITH CELL SURFACE RECEPTOR S.	Alpha-2- macroglobulin receptor- associated protein precursor(Alpha- 2-MRAP) (Low density lipoprotein receptor-related protein- associated protein 1) (RAP) (GP330-binding 45 kDa protein) (Fragment).
Z11995	12170	Q99068	12171	AK027025	12172	P30533	12173	86	45kDa protein which binds to heymann nephritis antigen gp330	Z11995cds RN45KDB R.norvegicus mRNA encoding 45kDa protein which binds to heymann nephritis antigen gp330		
Z36276	12174	Q84595	12175	X94612	12176	JE0103	12177	88.68	cGMP dependent protein kinase type II	Z36276 R.norvegicus (Sprague-Dawley) GK II mRNA for cGMP dependent protein kinase II /cds=(47,2335) /gb=Z36276 /gl=556668 /ug=Rn.10443 /len=2980		cGMP- dependent protein kinase 2 (EC 2.7.1.37) (CGK 2) (cGKII) (Type IIcGMP- dependent protein kinase).

Table 2.

Z75029	12178	Q07439	12179	M24743	12180	159139	98	Heat shock protein 70-1	Z75029 R.norvegicus hsp70.2 mRNA for heat shock protein 70 /cds=(0,37) /gb=Z75029 /g=1483577 /ug=Rn.1850 /len=707
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Table 3.

Rat gene	Rat gene SEQ ID NO:	Rat Protein	Rat protein SEQ ID NO:	Human Genes	Human gene SEQ ID NO:	Human Protein	Human protein SEQ ID NO:	% homology	Identifier	Former Identifier	Description
AA799389	12181	NP_112353	12182	XM_001501		XP_001501		95	Rab3B protein	NM_031091	AA799389 EST188888 Rattus norvegicus cDNA, 5' end /clone=RHEAA70 /clone_end=5' /gb=AA799389 /gi=2862344 /ug=Rn.3788 /len=588
AB000517	12183	BAA22085	12184	XM_003308	12185	XP_003308	12186	86	CDP-diacylglycerol synthase		AB000517 Rattus sp. mRNA for CDP-diacylglycerol synthase, complete cds
AB003357	12187	BAA20077	12188	AL138761	12189	CAC00587	12190	66	Serine/threonine kinase 2		AB003357 Rat mRNA for protein kinase, complete cds
AB009463	12191	BAA32331	12192	AB009462	12193	BAA32330	12194	84	LRp105		AB009463 Rattus norvegicus mRNA for LRp105, complete cds
AB009463	12195	BAA32331	12196	AB009462	12197	BAA32330	12198	84	LRp105		Rattus norvegicus mRNA for LRp105, complete cds
AB010635	12199	BAA25692	12200	NM_003869	12201	NP_003860	12202	69	Carboxylesterase precursor		AB010635 Rattus norvegicus mRNA for carboxylesterase precursor, complete cds
AB015191	12203	NP_071950	12204	Z97026	12205	CAB09722	12206	52	Rhesus blood group	NM_022505	AB015191 Rattus norvegicus mRNA for Rh blood group protein, complete cds
AB015191	12207	NP_071950	12208	Z97026	12209	CAB09722	12210	52	Rhesus blood group	NM_022505	AB015191 Rattus norvegicus mRNA for Rh blood group protein, complete cds
AB015432	12211	BAA33035	12212	NM_003486	12213	NP_003477	12214	83	LAT1 (L-type amino acid transporter 1)		AB015432 Rattus norvegicus mRNA for LAT1 (L-type amino acid transporter 1), complete cds
AB016161	12215	Q8Z0U4	12216	AJ225028	12217	Q9UBS5	12218	97	Gamma-aminobutyric acid (GABA) B receptor, 1		AB016161UTR#1 Rattus norvegicus mRNA for GABAB receptor 1d, complete cds

Table 3.

AB016161	12219	Q8Z0U4	12220	AJ225028	12221	Q8UBS5	12222	97	Gamma-aminobutyric acid (GABA) B receptor, 1	AB016161UTR#1 Rattus norvegicus mRNA for GABAB receptor 1d, complete cds
AB016425	12223	BAA36681	12224	NM_002538	12225	NP_002529	12226	81	Occludin	AB016425 Rattus norvegicus mRNA for occludin, complete cds
AB017596	12227	BAA33393	12228	AF110304	12229	AAF36094	12230	73	PC1 mRNA for plasma cell membrane glycoprotein, partial cds	AB017596 Rattus norvegicus PC1 mRNA for plasma cell membrane glycoprotein, partial cds
AF000973	12231	AAB82740	12232	XM_012875	12233	XP_012875	12234	75	Calcium-activated potassium channel (SK1) mRNA	AF000973 RNAF000973 Rattus norvegicus calcium-activated potassium channel (SK1) mRNA, complete cds
AF009604	12235	O35180	12236	X99664	12237	Q89963	12238	86	SH3 domain protein 2 C1	AF009604 Rattus norvegicus SH3p13 mRNA, partial cds /cds=(0,875) /gb=AF009604 /gi=2293469 /ug=Rn.5909 /len=1216
AF015911	12239	AAB69864	12240	AF395817	12241	AAK83885	12242	78	NAC-1 protein (NAC-1)	AF015911 Rattus norvegicus NAC-1 protein (NAC-1) mRNA, complete cds /cds=(134,1678) /gb=AF015911 /gi=2384731 /ug=Rn.11171 /len=2046
AF016247	12243	AAD01584	12244	X74764	12245	CAA52777	12246	87	Rattus norvegicus RTK40 homolog (tyro10) mRNA	AF016247 Rattus norvegicus RTK40 homolog (tyro10) mRNA, complete cds
AF016247	12247	AAD01584	12248	X74764	12249	CAA52777	12250	87	Rattus norvegicus RTK40 homolog (tyro10) mRNA	AF016247 Rattus norvegicus RTK40 homolog (tyro10) mRNA, complete cds



Table 3.

AF024712	12251	AAD05124	12252	X17273	12253	P17693	12254	69	MHC class Ib M4 (RT1.M4) pseudogene	AF024712cds Rattus norvegicus MHC class Ib M4 (RT1.M4) pseudogene, complete sequence
AF029357	12255	g2570935	12256	AL022727	12257	g3757726		48	Rattus norvegicus olfactory receptor-like protein gene, complete cds	AF029357cds Rattus norvegicus olfactory receptor-like protein gene, complete cds
AF030358	12258	AAC33834	12259	U84487	12260	AAB49679	12261	63	Rattus norvegicus chemokine CX3C mRNA, complete cds	AF030358 Rattus norvegicus chemokine CX3C mRNA, complete cds
AF030358	12262	AAC33834	12263	U84487	12264	AAB49679	12265	63	Rattus norvegicus chemokine CX3C mRNA, complete cds	Rattus norvegicus chemokine CX3C mRNA, complete cds
AF034896	12266	AAD01991	12267	NM_013941	12268	NP_039229	12269	57	Olfactory receptor-like protein (SCR D-6)	AF034896 Rattus norvegicus olfactory receptor-like protein (SCR D-6) mRNA, complete cds
AF034899	12270	JC5636	12271	L35475	12272	Q15082	12273	44	Rattus norvegicus olfactory receptor-like protein (SCR D-6) gene, complete cds	AF034899 Rattus norvegicus olfactory receptor-like protein (SCR D-6) gene, complete cds /cds=(0.965) /gb=AF034899 /gt=3153224 /lug=Rn.14522 /len=1086

Table 3.

AF034899	12274	JC5836	12275	L35475	12276	Q15062	12277	44	Rattus norvegicus olfactory receptor-like protein (SCR D-9) gene, complete cds	AF034899 Rattus norvegicus olfactory receptor-like protein (SCR D-9) gene, complete cds /cds=(0,965) /gb=AF034899 /gi=3153224 /lg=Rn.14522 /len=1086
AF034899	12278	JC5836	12279	L35475	12280	Q15062	12281	44	Rattus norvegicus olfactory receptor-like protein (SCR D-9) gene, complete cds	AF034899 Rattus norvegicus olfactory receptor-like protein (SCR D-9) gene, complete cds /cds=(0,965) /gb=AF034899 /gi=3153224 /lg=Rn.14522 /len=1086
AF034899	12282	JC5836	12283	L35475	12284	Q15062	12285	44	Rattus norvegicus olfactory receptor-like protein (SCR D-9) gene, complete cds	AF034899 Rattus norvegicus olfactory receptor-like protein (SCR D-9) gene, complete cds /cds=(0,965) /gb=AF034899 /gi=3153224 /lg=Rn.14522 /len=1086
AF034900	12286	AAC17224	12287	NM_013941	12288	NP_039229	12289	57	Olfactory receptor-like protein (SCR D-7)	AF034900mRNA Rattus norvegicus olfactory receptor-like protein (SCR D-7) gene, complete cds
AF035822	12290	AAC72291	12291	NM_004782	12292	NP_004773	12293	82	GS32	AF035822 Rattus norvegicus GS32 (GS32) mRNA, complete cds
AF039212	12284	AAB94937	12295	AF297093	12286	AAG30417	12297	64	UDP-glucuronosyltransferase 1A7 (UGT1A7) gene	AF039212mRNA Rattus norvegicus UDP-glucuronosyltransferase 1A7 (UGT1A7) gene, promoter and partial cds

Table 3.

AF039218	12298	T14039	12299	AC002563	12300	O14578	12301	98	Postsynaptic density protein (cltron)	AF039218 Rattus norvegicus postsynaptic density protein (cltron) mRNA, complete cds /cds=(812,548bp) /gb=AF039218 /gi=2745839 /ug=Rn.10876 /len=5952
AF039308	12302	AAC28781	12303	NM_012413	12304	NP_036545	12305	84	Rattus norvegicus glutaminyl cyclase mRNA, partial cds	AF039308 Rattus norvegicus glutaminyl cyclase mRNA, partial cds
AF044910	12306	AAC01747	12307	NM_022875	12308	NP_075013	12309	64	survival motor neuron	AF044910 Rattus norvegicus survival motor neuron (smn) mRNA, complete cds /cds=(21,887) /gb=AF044910 /gi=2832312 /ug=Rn.1119 /len=1207
AF044910	12310	AAC01747	12311	NM_022875	12312	NP_075013	12313	64	survival motor neuron	AF044910 Rattus norvegicus survival motor neuron (smn) mRNA, complete cds /cds=(21,887) /gb=AF044910 /gi=2832312 /ug=Rn.1119 /len=1207
AF059878	12314	S02003	12315	L23320	12316	A49651	12317	75	Rattus norvegicus VIP-receptor-gene repressor protein mRNA, complete cds	Rattus norvegicus VIP-receptor-gene repressor protein mRNA, complete cds
AF060174	12318	AAC78628	12319	XM_051920		XP_051920		60	Synaptic vesicle protein 2C (SV2C) mRNA	AF060174 Rattus norvegicus synaptic vesicle protein 2C (SV2C) mRNA, complete cds
AF061266	12320	AAC67387	12321	U31110	12322	P48985	12323	88	Trp1 beta variant mRNA	AF061266 Rattus norvegicus trp1 beta variant mRNA, complete cds

Table 3.

AF061945	12324	AAD11811	12325	XM_042803	XP_042803	79	Rattus norvegicus NMDA receptor-like long variant mRNA, partial cds	AF061945 Rattus norvegicus NMDA receptor-like long variant mRNA, partial cds
AF061945	12326	AAD11811	12327	XM_042803	XP_042803	79	Rattus norvegicus NMDA receptor-like long variant mRNA, partial cds	AF061945 Rattus norvegicus NMDA receptor-like long variant mRNA, partial cds
AF061945	12328	AAD11811	12329	XM_042803	XP_042803	79	Rattus norvegicus NMDA receptor-like long variant mRNA, partial cds	AF061945 Rattus norvegicus NMDA receptor-like long variant mRNA, partial cds
AF061945	12330	AAD11811	12331	XM_042803	XP_042803	79	Rattus norvegicus NMDA receptor-like long variant mRNA, partial cds	AF061945 Rattus norvegicus NMDA receptor-like long variant mRNA, partial cds

Table 3.

AF062741	12332	AAC40168	12333	XM_043826	12334	Q8P2J9	12335	83	Rattus norvegicus pyruvate dehydrogenase phosphatase isoenzyme 2 mRNA, complete cds
AF063103	12336	AAC77816	12337	XM_034081		XP_034091		58	AF063103 Rattus norvegicus calcium-independent alpha-latrotoxin receptor homolog 3 (CIRL-3) mRNA, complete cds
AF063103	12338	AAC77816	12338	AF063103	12340	AAC77816	12341	93	AF063103 Rattus norvegicus calcium-independent alpha-latrotoxin receptor homolog 3 (CIRL-3) mRNA, complete cds
AF063302	12342	AAC72745	12343	U62733	12344	AAC51122	12345	72	AF063302mRNA#3 Rattus norvegicus carnitine palmitoyltransferase Ibeta 1, carnitine palmitoyltransferase Ibeta 2, and carnitine palmitoyltransferase Ibeta 3 gene, nuclear gene encoding mitochondrial proteins, alternatively spliced products, partial cds
AF063302	12346	AAC72745	12347	U62733	12348	AAC51122	12349	72	AF063302mRNA#3 Rattus norvegicus carnitine palmitoyltransferase Ibeta 1, carnitine palmitoyltransferase Ibeta 2, and carnitine palmitoyltransferase Ibeta 3 gene, nuclear gene encoding mitochondrial proteins, alternatively spliced products, partial cds
AF064868	12350	AAC63267	12351	NM_020836	12352	NP_065887	12353	79	AF064868 Rattus norvegicus brain-enriched guanylate kinase-associated protein 1 mRNA, complete cds

Table 3.

AF065161	12354	AAC17502	12355	XM_002835	12358	XP_002835	87	cytokine-inducible SH2-containing protein	AF065161 Rattus norvegicus cytokine-inducible SH2-containing protein mRNA, partial cds /cds=(0,770) /gb=AF065161 /gi=3158431 /ug=Rn.14523 /len=803
AF076856	12356	AAC68563	12357	NM_031475	12359	NP_113663	97	Small espin mRNA	AF076856 Rattus norvegicus small espin mRNA, complete cds
AF079162	12360	AAC98398	12361	NM_000264	12362	NP_000255	92	Rattus norvegicus patched (ptc) mRNA, partial cds	AF079162 Rattus norvegicus patched (ptc) mRNA, partial cds
AF081148	12364	AAC62654	12365	AL157803	12366	CAC19786	81	CL2AA mRNA	AF081148 Rattus norvegicus CL2AA mRNA, complete cds
AF083341	12368	AAC32866	12369	AF025999	12370	AAB88802	92	Calcium-activated potassium channel (SLON-1) mRNA, partial cds	AF083341 Rattus norvegicus calcium-activated potassium channel (SLON-1) mRNA, partial cds
AF086758	12372	AAD09008	12373	NM_001046	12374	NP_001037	80	Na-K-2Cl cotransporter (Nkcc1)	AF086758 Rattus norvegicus Na-K-2Cl cotransporter (Nkcc1) mRNA, partial cds
AF089839	12376	AAF01051	12377	XM_032173	12378	XP_032173	91n	N-ethylmaleimide sensitive factor	AF089839 Rattus norvegicus N-ethylmaleimide sensitive factor mRNA, partial cds
AF089839	12380	AAF01051	12381	XM_032173	12382	XP_032173	91n	N-ethylmaleimide sensitive factor	Rattus norvegicus N-ethylmaleimide sensitive factor mRNA, partial cds
AF090134	12384	AAC78073	12385	NM_004664	12386	NP_004655	88	Rattus norvegicus Ilm-7-Ba mRNA, complete cds	AF090134 Rattus norvegicus Ilm-7-Ba mRNA, complete cds

Table 3.

AF090692	12388	AAC36317	12389	NM_005492	12390	NP_005483	12391	62	Cystatin-related epididymal spermatogenic protein (CRES) mRNA, complete cds	AF090692 Rattus norvegicus cystatin-related epididymal spermatogenic protein (CRES) mRNA, complete cds
AF090692	12392	AAC36317	12393	NM_005492	12394	NP_005483	12395	62	Cystatin-related epididymal spermatogenic protein (CRES) mRNA, complete cds	AF090692 Rattus norvegicus cystatin-related epididymal spermatogenic protein (CRES) mRNA, complete cds
AF091563	12396	AAC84586	12397	AF321237	12398	AAG45205	12399	49	Rattus norvegicus isolate QIL-LD1 olfactory receptor	AF091563 Rattus norvegicus isolate QIL-LD1 olfactory receptor mRNA, partial cds
AF091563	12400	AAC84586	12401	AF321237	12402	AAG45205	12403	49	Rattus norvegicus isolate QIL-LD1 olfactory receptor	AF091563 Rattus norvegicus isolate QIL-LD1 olfactory receptor mRNA, partial cds
AF091563	12404	AAC84586	12405	AF321237	12406	AAG45205	12407	49	Isolate QIL-LD1 olfactory receptor mRNA	AF091563 Rattus norvegicus isolate QIL-LD1 olfactory receptor mRNA, partial cds
AF091563	12408	AAC84586	12408	AF321237	12410	AAG45205	12411	49	Isolate QIL-LD1 olfactory receptor mRNA	AF091563 Rattus norvegicus isolate QIL-LD1 olfactory receptor mRNA, partial cds

Table 3.

AF091578	12412	AAC64598	12413	NIM_006637	12414	NP_006528	12415	47	Rattus norvegicus isolate EVA-TN1 olfactory receptor mRNA, partial cds	AF091578 Rattus norvegicus isolate EVA-TN1 olfactory receptor mRNA, partial cds
AF092523	12416	AAC61775	12417	BC000729	12418	AAH00729	12419	44	A-kinase anchor protein 84 mRNA	AF092523 Rattus norvegicus A-kinase anchor protein 84 mRNA, complete cds
AF092523	12420	AAC61775	12421	BC000729	12422	AAH00729	12423	44	A-kinase anchor protein 84 mRNA	AF092523 Rattus norvegicus A-kinase anchor protein 84 mRNA, complete cds
AF098291	12424	1AF3	12425	U59747	12426	Q82843	12427	98	APOPTOSIS REGULATORY BCL-W	Rattus norvegicus Bcl-w (bcl-w) mRNA, complete cds
AF097887	12428	AAC69198	12429	NP_067028		NP_067028	12430	61	Chp	AF097887 Rattus norvegicus Chp mRNA, complete cds
AF104399	12431	AAC98389	12432	NIM_004143	12433	NP_004134	12434	61	Rattus norvegicus melanocyte-specific gene 1 protein (msg1) mRNA, complete cds	AF104399 Rattus norvegicus melanocyte-specific gene 1 protein (msg1) mRNA, complete cds



Table 3.

AF104399	12435	AAC98389	12436	NM_004143	12437	NP_004134	12438	61	Rattus norvegicus melanocyte-specific gene 1 protein (msg1) mRNA, complete cds	AF104399 Rattus norvegicus melanocyte-specific gene 1 protein (msg1) mRNA, complete cds
AJ005046	12439	CAA06313	12440	NM_003837	12441	NP_003828	12442	95	Rattus norvegicus mRNA for muscle fructose-1,6-bisphosphatase	AJ005046 Rattus norvegicus mRNA for muscle fructose-1,6-bisphosphatase
AJ011115	12443	CAA09493	12444	XM_004684		XP_004684		98	Rattus norvegicus mRNA for endothelial nitric oxide synthase, 5' region, partial	AJ011115 Rattus norvegicus mRNA for endothelial nitric oxide synthase, 5' region, partial
AJ011115	12445	CAA09493	12446	XM_004684		XP_004684		98	Rattus norvegicus mRNA for endothelial nitric oxide synthase, 5' region, partial	AJ011115 Rattus norvegicus mRNA for endothelial nitric oxide synthase, 5' region, partial

Table 3.

D00569	12447	Q64591	12448	L26050	12449	Q16698	12450	81	Rattus norvegicus mRNA for 2,4-dienoyl-CoA reductase precursor, complete cds	D00569 Rat mRNA for 2,4-dienoyl-CoA reductase (EC 1.3.1.34) /cds=(18,1025) /gb=D00569 /gi=220731 /ug=Rn.2854 /len=1118
D00569	12451	Q64591	12452	L26050	12453	Q16698	12454	81	Rattus norvegicus mRNA for 2,4-dienoyl-CoA reductase precursor, complete cds	Rat mRNA for 2,4-dienoyl-CoA reductase (EC 1.3.1.34) /cds=(18,1025) /gb=D00569 /gi=220731 /ug=Rn.2854 /len=1118
D00569	12455	Q64591	12456	L26050	12457	Q16698	12458	81	Rattus norvegicus mRNA for 2,4-dienoyl-CoA reductase precursor, complete cds	Rat mRNA for 2,4-dienoyl-CoA reductase (EC 1.3.1.34) /cds=(18,1025) /gb=D00569 /gi=220731 /ug=Rn.2854 /len=1118
D00729	12459	BAA00629	12460	XM_028848	12461	XP_028848	12462	53	Delta3, delta2-enoyl-CoA isomerase; SEVERAL EXONS; ONLY 1 & 2 LISTED ON THIS SHEET	D00729 Rat mRNA for delta3, delta2-enoyl-CoA isomerase /cds=(77,973) /gb=D00729 /gi=220733 /ug=Rn.24869 /len=1060

Table 3.

D00729	12453	BAA00828	12464	XM_028848	12465	XP_028848	12468	53	Delta3, delta2-enoyl-CoA isomerase; SEVERAL EXONS: ONLY 1 & 2 LISTED ON THIS SHEET
D10026	12467	BAA00816	12468	NM_000854	12469	NP_000845	12470	78	Glutathione S-transferase, theta 2
D12820	12471	BAA02252	12472	NM_012377	12473	NP_036508	12474	59	GUST27 protein, complete cds
D13556	12475	BAA02754				Null		No Human cds	T cell receptor eta chain, partial cds
D13966	12476	BAA03059	12477	XM_043563	12478	XP_043563	12479	86	Rat mRNA for sIRR-2(insulin receptor-related receptor alternatively spliced product), complete cds
D14448	12480	P52164	12481	XM_038545		XP_038545		98	D14448 RATMAX2 Rat Max mRNA, complete cds
D14478	12482	BAA03369	12483	NM_001748	12484	NP_001739	12485	60	D14478 Rat pre-mature mRNA for calpain, complete cds /cds=UNKNOWN /gb=D14478 /gi=441195 /ug=Rn.10364 /len=2641

Rat mRNA for delta3, delta2-enoyl-CoA isomerase /cds=(77,973) /gb=D00729 /gi=220733 /ug=Rn.24869 /len=1060

D10026 RATGSTYRS Rattus norvegicus mRNA for glutathione S-transferase Yrs-Yrs, complete cds  
D12820 RATGUST27 Rat mRNA for GUST27 protein, complete cds

D13556exon RATTCREC9 Rat DNA for T cell receptor eta chain, exon 9

D13966 RATSIRR2 Rat mRNA for sIRR-2(insulin receptor-related receptor alternatively spliced product), complete cds  
D14448 RATMAX2 Rat Max mRNA, complete cds

D14478 Rat pre-mature mRNA for calpain, complete cds /cds=UNKNOWN /gb=D14478 /gi=441195 /ug=Rn.10364 /len=2641

Table 3.

D14819	12486	BAA03557	12487	NIM_016257	12488	NP_057341	12489	97	Rat mRNA for calcium-binding protein P23k beta, partial cds	D14819 RATCBPP23B Rat mRNA for calcium-binding protein P23k beta, partial cds
D14987	12490	BAA03632	12491	L20000	12492	AAA35758	12493	60	Rat hydroxysteroid sulfotransferase mRNA, complete cds	rc_AA945589 EST201088 Rattus norvegicus cDNA, 3' end /clone=RLIAP44 /clone_end=3' /gb=AA945589 /ug=Rn.2151 /len=569
D14987	12494	BAA03632	12495	L20000	12496	AAA35758	12497	60	Rat hydroxysteroid sulfotransferase mRNA, complete cds	EST201088 Rattus norvegicus cDNA, 3' end /clone=RLIAP44 /clone_end=3' /gb=AA945589 /ug=Rn.2151 /len=569
D16443	12498	BAA03912	12499			Null			Prostaglandin E2 receptor EP3 subtype isoform	D16443 RATREP3B Rat mRNA for prostaglandin E2 receptor EP3 subtype isoform, complete cds
D16443	12500	BAA03912	12501			Null			Prostaglandin E2 receptor EP3 subtype isoform	D16443 RATREP3B Rat mRNA for prostaglandin E2 receptor EP3 subtype isoform, complete cds
D17370	12502	CAA37547	12503	S52784	12504	P32929	12505	82	CTL target antigen	RATCGL Rat mRNA for cystathionine gamma-lyase, complete cds
D17695	12506	BAA04559	12507	NIM_004925	12508	NP_004916	12509	94	Water channel aquaporin 3 (AQP3)	D17695 RATAQP3 Rat mRNA for water channel aquaporin 3 (AQP3), complete cds

Table 3.

D25290	12510	P55280	12511	D31784	12512	P55285	12513	96	Cadherin 6 (K-cadherin)
D25290	12514	BAA05508	12515	NIM_001372	12516	NP_001363	12517	80	Dynelin-like protein 9A, partial cds
D49855	12518	BAA08710	12519	XM_003594	12522	XP_003594	12523	78	Rat mRNA for bone marrow stromal cell antigen 1 (BST-1)
D63761	12520	P56522	12521	J03826	12522	P22570	12523	86	Adrenodoxin reductase
D84046	12524	BAA10926	12525	NM_005027	12526	NP_005018	12527	80	phosphatidylinositol 3-kinase p85 beta subunit, complete cds
D82074	12528	BAA11535	12529	XM_002573	12530	XP_002573	12531	85	BHF-1
D82883	12532	O70531	12533	U14528	12534	P50443	12535	81	Rattus norvegicus mRNA for sulfate transporter, complete cds
D83349	12536	BAA11895	12537	XM_008821	12538	XP_008821	12539	54	Short type PB-cadherin
D84418	12538	D52025	12539	Y62534	12540	2001363A	12541	98	High mobility group protein 2

Table 3.

D84480	12542	NM_000988	12543	NP_000980	12544				Rat PMSG-Induced ovarian mRNA, 3'sequence, N2	92				D84480 RATPMISGA Rat PMSG-Induced ovarian mRNA, 3'sequence, N2
D84482	12545	XM_047666		XP_047666					Rat PMSG-Induced ovarian mRNA, 3'sequence, N4	87n				D84482 RAT3HIN4 Rat PMSG-Induced ovarian mRNA, 3'sequence, N4
D84667	12546	BAA18969	12547	U81802	12548	AAC51156	12549		Phosphatidylinositol 4-kinase	93				D84667 Rattus norvegicus mRNA for phosphatidylinositol 4-kinase, complete cds
D86580	12550	BAA13127	12551	NM_021969	12552	NP_068804	12553		Rattus norvegicus mRNA for small heterodimer partner homolog	75				D86745cds S1 Rat DNA for small heterodimer partner homologue, exon 1
D86580	12554	BAA13127	12555	NM_021969	12556	NP_068804	12557		Rattus norvegicus mRNA for small heterodimer partner homolog	75				D86745cds S1 Rat DNA for small heterodimer partner homologue, exon 1
D87840	12558	BAA25260	12559	XM_054716		XP_054716			Madcam 1	54				D87840 Rattus norvegicus mRNA for madcam 1, complete cds /cds=(13,1197) /gb=D87840 /gi=2982666 /ug=Rn.9906 /len=1279
D88586	12560	P70709	12561	X15161	12562	P12724	12563		Rat mRNA for eosinophil cationic protein, complete cds	55				D88586 Rat mRNA for eosinophil cationic protein, complete cds /cds=(63,530) /gb=D88586 /gt=1668582 /ug=Rn.10626 /len=711

Table 3.

D89514	12564	BAA22837	12565	D82348	12566	BAA11559	12567	91	5-aminimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase, complete cds /gb=D89514 /gi=2541805 /len=11052 /len=1928
D90048	12568	BAA14101	12569	NM_001678	12570	NP_001669	12571	100	D90048 exon RATATPB2S Rat Na <sup>+</sup> , K <sup>+</sup> -ATPase (EC 3.6.1.3) beta2 subunit gene and 5' flank
D90048	12572	BAA14101	12573	NM_001678	12574	NP_001669	12575	100	D90048 exon RATATPB2S Rat Na <sup>+</sup> , K <sup>+</sup> -ATPase (EC 3.6.1.3) beta2 subunit gene and 5' flank
J00692	12576	CAA24529	12577	NM_001100	12578	NP_001091	12579	100	J00692 Rat skeletal muscle alpha-actin gene, complete cds /cds=(12,1145) /gb=J00692 /gi=202680 /ug=Rn.11381 /len=1384
J00797	12580	AAA42306	12581	AF141347	12582	AAD33871	12583	97	J00797 cds RATTUBAL1 Rat alpha-tubulin gene, exon 1
J01435	12584			Null					J01435 cds #8 RATMTCYOS Rattus norvegicus mitochondrial cytochrome oxidase subunits I, II, III genes, ATPase subunit 6 gene, Trp-Ala-Asn-Cys-Tyr-Ser(ucn)-Asp-Lys-Gly-Arg-His-Ser(agg)-Leu(cun)-tRNAs
J02596	12585	AAA40746	12586	NM_000040	12587	NP_000031	12588	44	J02596 cds RATAPOA02 Rat apolipoprotein C-III gene, complete cds

V01218

Table 3.

J02749	12588	JT0551	12590	X12966	12591	XUHUAB	12592	86	Acetyl-CoA acyltransferase, 3-oxo acyl-CoA thiolase A, peroxisomal	J02749 Rat peroxisomal 3-ketoacyl-CoA thiolase mRNA, complete cds /cds=(25,1289) /gb=J02749 /gi=205086 /ug=Rn.8913 /len=1580
J02749	12593	JT0551	12594	X12966	12595	XUHUAB	12596	86	Acetyl-CoA acyltransferase, 3-oxo acyl-CoA thiolase A, peroxisomal	J02749 Rat peroxisomal 3-ketoacyl-CoA thiolase mRNA, complete cds /cds=(25,1299) /gb=J02749 /gi=205096 /ug=Rn.8913 /len=1580
J03178	12597	AAA41083	12598	NM_001352	12599	NP_001343	12600	68	D-binding protein	J03178 Rat D-binding protein mRNA, complete cds /cds=(367,1344) /gb=J03178 /gi=203942 /ug=Rn.11274 /len=1622
J03179	12601	AAA41083	12602	NM_001352	12603	NP_001343	12604	68	D-binding protein	J03179 Rat D-binding protein mRNA, complete cds /cds=(367,1344) /gb=J03179 /gi=203942 /ug=Rn.11274 /len=1622
J03637	12605	AAA40713	12606	BC004370	12607	AAH04370	12608	81	Aldehyde dehydrogenase	J03637 Rat aldehyde dehydrogenase mRNA, complete cds /cds=(173,1534) /gb=J03637 /gi=202832 /ug=Rn.9810 /len=1725
J03806	12609	A31317	12610	M34667	12611	P19174	12612	96	Phospholipase C, gamma 1	J03806 Rat phospholipase C mRNA, complete cds /cds=(94,3986) /gb=J03806 /gi=206323 /ug=Rn.11243 /len=5106
J03914	12613	AAA41296	12614	XM_002155	12615	XP_002155	12616	80	Rat glutathione S- transferase Y- b subunit mRNA, 3' end	J02592 Rat glutathione S-transferase Y-b subunit mRNA, 3' end /cds=(Q.560) /gb=J02592 /gi=204498 /ug=Rn.625 /len=909
J04591	12617	AAA41096	12618	M80536	12619	AAA52308	12620	81	Dipeptidyl peptidase IV	J04591 Rat dipeptidyl peptidase IV (DPP) mRNA, complete cds /cds=(88,2391) /gb=J04591 /gi=203973 /ug=Rn.1862 /len=4835



Table 3.

J04807	12621	NP_062003	12622	NM_000207	12623	NP_000198	12624	84	Rattus norvegicus Insulin 2	NM_019130	J04807 mRNA RATINSIIA Rat Insulin II gene mRNA, 3' end
K03045	12625	AAB06955	12626	NM_006744	12627	NP_006735	12628	87	Retinol-binding protein	U63146	K03045 cds RTRBP02 Rat retinol-binding protein (RBP) gene, exon 5
K03045	12629	AAB06955	12630	NM_006744	12631	NP_006735	12632	85	Retinol-binding protein	U63146	K03045 cds RTRBP02 Rat retinol-binding protein (RBP) gene, exon 5
L00088	12633	AAA89533	12634	XM_030823	12635	XP_030823	12636	85	myosin light chain		L00088 expanded_cds#2 Rat fast myosin alkali light chain /cds=(75,527) /gb=L00088 /gi=205473 /ug=Rn.6847 /len=810
L01702	12637	AAA41983	12638	X53384	12639	CAA37447	12640	89	Tyrosine-phosphatase (LRP)		L01702 Rat protein-tyrosine-phosphatase (LRP) mRNA, complete cds /cds=(10,2400) /gb=L01702 /gi=208492 /ug=Rn.18043 /len=2935
L03284	12641	Q06000	12642	M15856	12643	LIHUL	12644	92	Lipoprotein lipase		L03284 Rattus norvegicus lipoprotein lipase mRNA, complete cds /cds=(174,1598) /gb=L03284 /gi=205214 /ug=Rn.3834 /len=3617
L03284	12645	Q06000	12646	M15856	12647	LIHUL	12648	92	Lipoprotein lipase		L03284 Rattus norvegicus lipoprotein lipase mRNA, complete cds /cds=(174,1598) /gb=L03284 /gi=205214 /ug=Rn.3834 /len=3617
L03284	12649	Q06000	12650	M15856	12651	LIHUL	12652	92	Lipoprotein lipase		Rattus norvegicus lipoprotein lipase mRNA, complete cds /cds=(174,1598) /gb=L03284 /gi=205214 /ug=Rn.3834 /len=3617
L04485	12653	AAA41571	12654	NM_002755	12655	NP_002746	12656	90	MAP Kinase		L04485 mRNA RATMAPKK Rattus norvegicus MAP kinase mRNA, complete cds
L05557	12657	AAB0703	12658	J04027	12659	P20020	12660	57	Rat plasma membrane calcium ATPase Isoform 2 gene, exon n+3 and partial cds		L05557 cds RATPMCA2A4 Rat plasma membrane calcium ATPase Isoform 2 gene, exon n+3 and partial cds

Table 3.

L05557	12661	AAB60703	12662	XM_052353	12663	XP_052353	12664	98	plasma membrane calcium ATPase	L05557cds RATPMCA2A4 Rat plasma membrane calcium ATPase isoform 2 gene, exon n+3 and partial cds
L07315	12665	AAA41094	12666	NM_004413	12667	NP_004404	12668	71	Dipeptidase 1	L07315 Rat dipeptidase (dpep1) mRNA, complete cds /cds=(129,1361) /gb=L07315 /gi=459932 /ug=Rn.6051 /len=2179
L08493	12669	AAC42032	12670	NM_000809	12671	NP_000800	12672	79	GABA-A receptor alpha-4 subunit gene, complete cds	L08493cds RATGABAAE Rattus rattus GABA-A receptor alpha-4 subunit gene, complete cds
L10152	12673	XM_029358		XP_029358				86n	System y+ basic (cationic) amino acid transporter	L10152 RATCAATRA Rattus norvegicus system y+ basic (cationic) amino acid transporter mRNA, mature peptide
L11587	12674	AAC37656	12675	XM_016527		XP_016527		65	Rat leukocyte common antigen- related phosphatase (LAR-PTP2)	L11587 Rat leukocyte common antigen- related phosphatase (LAR-PTP2) mRNA, complete cds /cds=(184,5775) /gb=L11587 /gi=205134 /ug=Rn.17237 /len=6469
L13202	12678	AAA41319	12677	NM_012183	12678	NP_036315	12679	100	HNF-3/fork- head homolog-2 [Rattus norvegicus] BLink	L13202 RATHFH2 Rattus norvegicus HNF-3/fork-head homolog-2 (HFH-2) mRNA, complete cds
L13202	12680	AAA41319	12681	NM_012183	12682	NP_036315	12683	100	HNF-3/fork- head homolog-2 [Rattus norvegicus] BLink	L13202 RATHFH2 Rattus norvegicus HNF-3/fork-head homolog-2 (HFH-2) mRNA, complete cds



Table 3.

L20823	12706	AAA03044	12707	NIM_001980	12708	NP_001971	12709	83	syntaxin 2.	L20823 Rattus norvegicus syntaxin 2 mRNA, complete cds /cds=(0,872) /gb=L20823 /gi=349312 /ug=Rn.10823 /len=911
L22655	12710	AAA81888	12711	AB022653	12712	751423A			Ig kappa chain	L22655 Rat anti-acetylcholine receptor antibody gene, kappa-chain, VJC region, complete cds /cds=(20,736) /gb=L22655 /gi=1220489 /ug=Rn.1749 /len=934
L23088	12713	AAA60325	12714	AL022148	12715	CAA18143	12716	73	P-selectin	L23088 Rattus norvegicus P-selectin mRNA, complete cds /cds=(16,2324) /gb=L23088 /gi=349552 /ug=Rn.10012 /len=3185
L24897	12717	AAA72046	12718	XM_052590	12719	XP_052590	12720	86	myosin heavy chain	L24897 Rattus norvegicus myosin heavy chain mRNA, 3' end /cds=(0,548) /gb=L24897 /gi=406108 /ug=Rn.10092 /len=649
L26525	12721	AAA21089	12722	XM_004559		XP_004559		80	tyrosine kinase receptor (Ptk-3) gene	L26525 Rattus norvegicus tyrosine kinase receptor (Ptk-3) gene, complete cds /cds=(0,2732) /gb=L26525 /gi=432480 /ug=Rn.7807 /len=2733
L26913	12723	AAA16478	12724	U10307	12725	AAA83738	12726	55	Rattus Norvegicus Interleukin-13 (IL-13)	L26913 Rattus Norvegicus Interleukin-13 (IL-13) mRNA, complete cds /cds=(0,395) /gb=L26913 /gi=438875 /ug=Rn.9921 /len=443
L27075	12727			Null					ATP-citrate lyase	L27075 Rat ATP-citrate lyase mRNA, exons 1-7 /cds=UNKNOWN /gb=L27075 /gi=436002 /ug=Rn.996 /len=13553
L27651	12728	AAA57157	12729	AF097518	12730	AAD37091	12731	79	Solute carrier family 22 (organic anion transporter), member 7	L27651 Rattus norvegicus liver-specific transport protein mRNA, complete cds /cds=(73,1680) /gb=L27651 /gi=529589 /ug=Rn.10009 /len=1910

Table 3.

L27651	12732	AAA57157	12733	AF097518	12734	AAD37091	12735	79	Solute carrier family 22 (organic anion transporter), member 7	Rattus norvegicus liver-specific transport protein mRNA, complete cds /cds=(73,1880) /gb=L27651 /gi=5285589 /ug=Rn.10008 /len=1910
L31619	12736	AAC33136	12737	NM_000746	12738	NP_000737	12739	87	C holinergic receptor, nicotinic, alpha polypeptide 7 (neuronal nicotinic acetylcholine receptor alpha 7) (bungarotoxin alpha)	Rattus rattus nicotinic acetylcholine receptor alpha 7 subunit mRNA, complete cds /cds=(22,1530) /gb=L31619 /gi=4688919 /ug=Rn.9698 /len=2105
L32601	12740	P51652	12741	D17783	12742	P42330	12743	71	Rat mRNA for 20-alpha-hydroxysteroid dehydrogenase (20-alpha-HSD), complete cds	L32601 RAT20AHYDE Rat 20 alpha-hydroxysteroid dehydrogenase mRNA, complete cds
L35921	12744	AAA73553	12745	NM_033258	12746	NP_150283	12747	98	GTP-binding protein gamma subunit	L35921 Rattus norvegicus GTP-binding protein gamma subunit (Ggamma8) mRNA, complete cds /cds=(220,432) /gb=L35921 /gi=625158 /ug=Rn.11233 /len=560

Table 3.

L47281	12748	AAB72238	12749	NM_000091	12750	NP_000082	12751	91	Rattus norvegicus alpha-3 type IV collagen (COL4A3) mRNA, partial cds	RATCOL4R Rattus norvegicus alpha-3 type IV collagen (COL4A3) mRNA, partial cds
L81136	12752	AAB61953	12753	XM_034464	12756	XP_034464	12757	62	Rattus norvegicus (strain R21) Rps2r1 preliminary DNA	L81136cds RATRPS2R1A Rattus norvegicus (strain R21) Rps2r1 preliminary DNA, complete cds
M10088	12754	AAA41064	12755	AB051763	12758	BA016572	12757	90	Rat NADPH-cytochrome P-450 oxidoreductase	M10088mRNA RATCYPOXM Rat NADPH-cytochrome P-450 oxidoreductase mRNA, complete cds
M10094	12758	I54531		I38874	12759	Null		75	RT1 class Ib gene	M10094 Rat MHC class I truncated cell surface antigen mRNA /cds=(0,320) /gb=M10094 /gj=M10094 /gj=205412 /ug=Rn.3577 /len=628
M10094	12760	I54531		I38874	12761	I38874		75	RT1 class Ib gene	Rat MHC class I truncated cell surface antigen mRNA /cds=(0,320) /gb=M10094 /gj=205412 /ug=Rn.3577 /len=628
M10140	12762	AAA40935	12763	XM_030967	12764	XP_030967	12765	89	skeletal muscle creatine kinase composite	M10140 Rat skeletal muscle creatine kinase composite mRNA, complete cds /cds=(69,1214) /gb=M10140 /gj=203477 /ug=Rn.10756 /len=1410
M11266	12766	AAA41767	12767	NM_000531	12768	NP_000522	12769	91	Omithine transcarbamylase	M11266 Rat omithine transcarbamylase mRNA /cds=(100,1164) /gb=M11266 /gj=205871 /ug=Rn.2391 /len=1519

Table 3.

M11851	12770	AAA41821	12771	AF020788	12772	AAB91993	12773	87	Rat heart myosin light chain 2 (MLC2) mRNA, 3' end	Rat heart myosin light chain 2 (MLC2) mRNA, 3' end /cds=(41,538) /gb=M11851 /lg=205476 /ug=Rn.17003 /len=610
M12579	12774	AAA41263	12775	X01059	12776	CAA25526	12777	71	hypothalamic gonadotropin-releasing hormone and prolactin release-inhibiting factor	M12579 Rat hypothalamic gonadotropin-releasing hormone and prolactin release-inhibiting factor mRNA, complete cds /cds=(32,310) /gb=M12579 /lg=204445 /ug=Rn.9822 /len=456
M15427	12778	AAA42001	12779	NIM_002880	12780	NP_002871	12781	95	raf protein	M15427 Rat c-raf protooncogene mRNA encoding raf protein, complete cds /cds=(40,1986) /gb=M15427 /lg=206544 /ug=Rn.5936 /len=2524
M15481	12782	AAA41387	12783	XM_052852	12784	XP_052852	12786	92	Insulin-like growth factor I (IGF-I)	M15481 Rat Insulin-like growth factor I (IGF-I) mRNA, complete cds /cds=(793,1176) /gb=M15481 /lg=204753 /ug=Rn.6282 /len=1348
M18528	12784	AAA41404		S85921	12785	AAB28160	12789	70	Immunoglobulin kappa-chain	M18528cds RATTIGKAG Rat (R.leucopus cooktownensis) Ig germline kappa-chain C-region gene, 3' end
M18853	12787	AAA42207		M15565	12788	AAA60827	12792	55	T-cell receptor alpha-chain C-region precursor	L37966mRNA RATTCTRAK Rattus norvegicus T-cell receptor alpha-chain mRNA
M18863	12790	AAA42207		M15565	12791	AAA60827	12792	55	T-cell receptor alpha-chain C-region precursor	L37966mRNA RATTCTRAK Rattus norvegicus T-cell receptor alpha-chain mRNA

Table 3.

M19357	12793	AAA40988	12794	NM_006891	12785	NP_008822	12786	76	Rat gamma-F-crystallin (gamma 4-1) gene, complete cds	M19357cds RACRYGF Rat gamma-F-crystallin (gamma 4-1) gene, complete cds
M19359	12797	P10065	12798	M17315	12799	P11844	12800	83	Gamma-A-crystallin gene	M19359mRNA#2 Rat gamma-crystallin gene cluster, encoding gamma-A (gamma 1-1), gamma-B (gamma 1-2), gamma-C (gamma 2-1), gamma-D (gamma 2-2), and gamma-E (gamma 3-1) crystallins, complete cds /cds=(27,551) /gb=M19359 /gi=203626 /ug=Rn.10805 /len=618
M19359	12801	AAA40981	12802	XM_002458		XP_002458		83	Gamma-A-crystallin	X14115 Rat DNA for B2 repeat (1-12) from gamma crystallin gene cluster.
M19359	12803	P10065	12804	M17315	12805	P11844	12806	83	Gamma-A-crystallin gene	M19359mRNA#2 Rat gamma-crystallin gene cluster, encoding gamma-A (gamma 1-1), gamma-B (gamma 1-2), gamma-C (gamma 2-1), gamma-D (gamma 2-2), and gamma-E (gamma 3-1) crystallins, complete cds /cds=(27,551) /gb=M19359 /gi=203626 /ug=Rn.10805 /len=618
M19359	12807	AAA40981	12808	XM_002458		XP_002458		83	Gamma-A-crystallin	X14115 Rat DNA for B2 repeat (1-12) from gamma crystallin gene cluster.
M22386	12809	AAA42083	12810	X00033	12811	CAA24917	12812	67	MHC RT1.B-alpha precursor	X07551cds RNRT1BA2 Rat MHC RT1.B-alpha gene for class II antigen exons 2-5
M22670	12813	NP_036620	12814	XM_006925	12815	XP_006925	12816	70	Rat alpha-2-macroglobulin gene, exons 5 and 6	M22670cds RATMGAA24 Rat alpha-2-macroglobulin gene, exons 5 and 6
M22670	12817	NP_036620	12818	XM_006925	12819	XP_006925	12820	70	Rat alpha-2-macroglobulin gene, exons 5 and 6	M22670cds RATMGAA24 Rat alpha-2-macroglobulin gene, exons 5 and 6



Table 3.

M22883	12821	AAA78025	12822	NIM_002864	12823	NP_002855	12824	60	Alpha-1-Inhibitor III	J03552	M22883cds RATA1INH3Z Rattus norvegicus alpha-1 Inhibitor III (alpha-1-3) gene, exons 1-3
M23889	12825	AAA42217		AJ301409	12826	CAC34114		67	Rat T-cell receptor beta-chain mRNA V-region (V-D-J-C), clone CRTB188		M23889 RATTCEBVI Rat T-cell receptor beta-chain mRNA V-region (V-D-J-C), clone CRTB188
M23889	12827	AAA42217		AJ301409	12828	CAC34114		67	Rat T-cell receptor beta-chain mRNA V-region (V-D-J-C), clone CRTB188		M23889 RATTCEBVI Rat T-cell receptor beta-chain mRNA V-region (V-D-J-C), clone CRTB188
M23890	12829	AAA42218		U66061	12830	AAC80215		81	Rat T-cell receptor unproductive beta-chain mRNA V-region (V-D-J-C), clone CRTB320		M23890 Rat T-cell receptor unproductive beta-chain mRNA V-region (V-D-J-C), clone CRTB320 /cds=(0,328) /gb=M23890 /gi=207211 /ug=Rn.9851 /len=372
M23995	12831	AAA40718	12832	M31994	12833	P00352	12834	78	Aldehyde dehydrogenase mRNA, complete cds		M23995 Rat aldehyde dehydrogenase mRNA, complete cds /cds=(45,1550) /gb=M23995 /gi=202845 /ug=Rn.9811 /len=2024
M23995	12835	AAA40718	12836	M31994	12837	P00352	12838	78	Aldehyde dehydrogenase mRNA, complete cds		M23995 Rat aldehyde dehydrogenase mRNA, complete cds /cds=(45,1550) /gb=M23995 /gi=202845 /ug=Rn.9811 /len=2024

Table 3.

M25350	12839	AAAB96560	12840	XM_040630	XP_040630	96	Rat cAMP phosphodiesterase (PDE4)	U95748	M25350 RATPHOCAMB Rat cAMP phosphodiesterase (PDE4) mRNA, partial cds
M25350	12841	AAAB96560	12842	XM_040630	XP_040630	96	Rat cAMP phosphodiesterase (PDE4)	U95748	RATPHOCAMB Rat cAMP phosphodiesterase (PDE4) mRNA, partial cds
M25804	12843	AAA74939	12844	NM_021724	NP_068370	88	Rev-erbA-alpha protein		M25804 Rat Rev-ErbA-alpha protein mRNA, complete cds /cds=(501,2027) /gb=M25804 /gi=514963 /ug=Rn.10105 /len=2297
M25804	12847	AAA74939	12848	NM_021724	NP_068370	88	Rev-erbA-alpha protein		M25804 Rat Rev-ErbA-alpha protein mRNA, complete cds /cds=(501,2027) /gb=M25804 /gi=514963 /ug=Rn.10105 /len=2297
M27283	12851	AAA41384	12852	NM_000876	NP_000866	94	Insulin-like growth factor-I receptor (IGF-I)		M27283 RATIGFI Rat Insulin-like growth factor-I receptor (IGF-I), complete cds
M31032	12855	AAA40989	12856	NM_007244	NP_009175	84n	Rat contiguous repeat polypeptides (CRP) mRNA, complete cds		M31032mRNA#2 RATCRP01 Rat contiguous repeat polypeptides (CRP) mRNA, complete cds
M31032	12859	AAA40989	12860	NM_007244	NP_009175	84n	Rat contiguous repeat polypeptides (CRP) mRNA, complete cds		M31032mRNA#2 RATCRP01 Rat contiguous repeat polypeptides (CRP) mRNA, complete cds
M31725	12863	AAA42201	12864	NM_005076	NP_005067	86	Rat axonal glycoprotein (TAG-1)		M31725 Rat axonal glycoprotein (TAG-1), mRNA, complete cds /cds=(223,3345) /gb=M31725 /gi=207148 /ug=Rn.9945 /len=5040

Table 3.

M33312	12867	P11711	12868	U22028	12869	Q16696	12870	71	Cytochrome P450 IIA1 (hepatic steroid hydroxylase IIA1) gene	M33312cde RATCYP2A1 Rat hepatic steroid hydroxylase IIA1 (CYP2A1) gene, complete cds
M34134	12871	P18342	12872	M19713	12873	P09493	12874	94	Tropomyosin 1 (alpha)	M34134 Rat brain alpha-tropomyosin (TMBI-2) mRNA, complete cds /cde=(136,891) /gb=M34134 /gi=207356 /ug=Rn.1033 /len=1004
M34238	12875	AAA40869	12876	NM_002505	12877	NP_002496	12878	55	CCAAT binding transcription factor-B subunit (CBF-B)	M34238 Rat CCAAT binding transcription factor-B subunit (CBF-B) mRNA, complete cds /cde=(170,1195) /gb=M34238 /gi=2033356 /ug=Rn.10747 /len=1415
M35270	12878	AAA42169	12880	NM_000030	12881	NP_000021	12882	76	Alanine-glyoxylate aminotransferase (Serine-pyruvate aminotransferase)	M35270completeSeq RATSPA Rat serine pyruvate aminotransferase mRNA, complete cds
M35270	12883	AAA42169	12884	NM_000030	12885	NP_000021	12886	76	Alanine-glyoxylate aminotransferase (Serine-pyruvate aminotransferase)	M35270completeSeq RATSPA Rat serine pyruvate aminotransferase mRNA, complete cds
M36151	12887	AAA41612	12888	M81141	12889	AAA59772	12890	77	MHC class II A-beta RT1.B-beta gene	M36151cde RATMHR1B Rat MHC class II A-beta RT1.B-beta gene, partial cds M37482 Rat inhibin beta-A-subunit mRNA, complete cds /cde=(162,1436) /gb=M37482 /gi=204936 /ug=Rn.9874 /len=1543
M37482	12891	AAA41436	12892	NM_002192	12893	NP_002183	12894	No Human A	Inhibin beta-A	

Table 3.

M57672	12895	AAA47285	12896	X60089	12897	P18440	12898	71	Rat gamma-glutamyl transpeptidase mRNA, complete cds, clone 12	M57672mRNA#2 Rat gamma-glutamyltransferase gene, 5' end /cds=(275,300) /gb=M57672 /gi=204304 /ug=Rn.10010 /len=301
M58287	12899	AAA41726	12900	XM_038856		XP_038856		83	Rat non-specific lipid transfer protein (nsL-TP) mRNA, 3' end	M58287 RATNSLTP Rat non-specific lipid transfer protein (nsL-TP) mRNA, 3' end
M58495	12801	AAA41989	12902	NM_000903	12903	NP_000894	12904	82	R. norvegicus NAD(P)H: quinone reductase	M58495mRNA RATQUINA R. norvegicus NAD(P)H: quinone reductase mRNA, complete cds
M61219	12905	AAA63500	12906	NM_002634	12907	NP_002625	12908	93	prohibitin Ubiquitin conjugating enzyme	M61219 Rat prohibitin (phb) mRNA, complete cds /cds=(11,829) /gb=M61219 /gi=206383 /ug=Rn.719 /len=1688
M62388	12909	AAA21087	12910	X53251	12911	CAA37339	12912	100	Ubiquitin conjugating enzyme	M62388 RATUCE Rattus norvegicus ubiquitin conjugating enzyme mRNA, complete cds
M62388	12913	AAA21087	12914	X53251	12915	CAA37339	12916	100	Ubiquitin conjugating enzyme	RATUCE Rattus norvegicus ubiquitin conjugating enzyme mRNA, complete cds
M63574	12917	AAA42129	12918	Z11783	12919	CAA77836	12920	62	selenoprotein P	rc_A1230247 EST226942 Rattus norvegicus cDNA, 3' end /clone=REMCU12 /clone_end=3' /gb=A1230247 /ug=Rn.1451 /len=466
M64378	12921	AAA41741	12922	AF398604	12923	AAK85089	12924	70	Olfactory protein	M64378 RATOLFPFROD Rat olfactory protein mRNA, complete cds
M64385	12925	AAA41748	12926	AF087916	12927	AAF37309	12928	73	Olfactory protein	M64385 RATOLFPFROK Rat olfactory protein mRNA, complete cds
M64391	12929	AAA41754	12930	NM_003553	12931	NP_003544	12932	56	Olfactory protein mRNA	Rattus norvegicus isolate HGL-SL1 olfactory receptor pseudogene, partial sequence



Table 3.

M77809	12859	AAA40813	12860	NM_003243	12861	NP_003234	12862	80	betaglycan	M77809 Rat betaglycan mRNA, complete cds /cds=(334,2895) /gb=M77809 /gi=203137 /ug=Rn.9953 /len=3931
M77850	12863	AAA40825	12864	NM_000317	12865	NP_000308	12866	87	6-pyruvoyl-tetrahydropterin synthase	M77850 Rat 6-pyruvoyl-tetrahydropterin synthase mRNA, complete cds /cds=(50,484) /gb=M77850 /gi=202560 /ug=Rn.11125 /len=1176
M80550	12967	AAA40682	12968	AB028983	12969	BAA83012	12970	94	adenylyl cyclase type II	M80550 Rat adenylyl cyclase mRNA, complete cds /cds=(69,3341) /gb=M80550 /gi=202761 /ug=Rn.10731 /len=4008
M81784	12971	XM_008465		XP_008465				88n	K <sup>+</sup> channel	M81784 RATKCAB Rattus norvegicus K <sup>+</sup> channel mRNA, sequence
M83107	12972	AAA40762	12973	XM_006432	12974	XP_006432	12975	97	SM22	M83107 Rat SM22 mRNA, complete cds /cds=(162,767) /gb=M83107 /gi=202882 /ug=Rn.774 /len=1169
M83567	12976	NP_036764	12977			Null		No Human	Proline-rich protein, salivary	M83567 RATPRPBA Rat basic proline-rich protein mRNA, 3' flank
M86835	12978	AAA42331	12979	XM_003226	12980	XP_003226	12981	76	Rat vasoactive intestinal polypeptide receptor mRNA	M86835 Rat vasoactive intestinal polypeptide receptor mRNA, complete cds /cds=(68,1437) /gb=M86835 /gi=207640 /ug=Rn.9973 /len=3129
M86912	12982	CAA44183	12983	D13814	12984	BAA02968	12985	86n	Rat angiotensin receptor (AT1) gene, single exon	M86912exon RATAT1B Rat angiotensin receptor (AT1) gene, single exon
M87786	12986	AAA41369				Null		No Human	Immunoglobulin light chain variable region	M87786 RATIGCD2L Rat (hybridoma YTH655) immunoglobulin light chain variable region, complementarity-determining regions mRNA, partial cds

NM\_012632

Table 3.

M90310	12987	AAA42287	12988	NM_003241	12989	NP_003232	12990	52	Dorsal protein 1	M90310 Rat dorsal protein 1 (DP-1) mRNA, complete cds /cds=(68,2074) /gb=M90310 /gi=207483 /ug=Rn.9964 /len=2997
M92042	12991	AAA41701	12992	NM_004784	12993	NP_004775	12994	70	Rat N-heparan sulfate sulfotransferase mRNA	M92042 Rat N-heparan sulfate sulfotransferase mRNA, complete cds /cds=(448,3094) /gb=M92042 /gi=205702 /ug=Rn.9705 /len=4051
M96630	12995	AAA42125	12996	XM_043841		XP_043841		100	Homologue to sec61	M96630 RATSEC61B Rattus rattus sec61 homologue mRNA, complete cds
M96630	12997	AAA42125	12998	XM_043841		XP_043841		100	Homologue to sec61	RATSEC61B Rattus rattus sec61 homologue mRNA, complete cds
M99223	12999	AAA40991	13000	NM_005173	13001	NP_005164	13002	72	calcium transporting ATPase	M99223 Rattus norvegicus calcium transporting ATPase mRNA, complete cds /cds=UNKNOWN /gb=M99223 /gi=203644 /ug=Rn.10633 /len=3457
A1639453	13003			Null					EST(not recognised)	Rat mixed-tissue library Rattus norvegicus cDNA clone rx00152 3', mRNA sequence [Rattus norvegicus]
A1639453	13004			Null					EST(not recognised) GTP	Rat mixed-tissue library Rattus norvegicus cDNA clone rx00152 3', mRNA sequence [Rattus norvegicus]
A1639485	13005	AAD56338				Null		100/91	cyclohydrolase I	Rat mixed-tissue library Rattus norvegicus cDNA clone rx00371 3', mRNA sequence [Rattus norvegicus]
A1639248	13006			Null					EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone rx00378 3', mRNA sequence [Rattus norvegicus]
A1639248	13007			Null					EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone rx00379 3', mRNA sequence [Rattus norvegicus]
A1639248	13008			Null					EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone rx00379 3', mRNA sequence [Rattus norvegicus]
A1639536	13009			Null					EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone rx00392 3', mRNA sequence [Rattus norvegicus]

Table 3.

AI639518	13010	AAD18908	13011	U37689	13012	P52434	13013	98	ESTs, Highly similar to RP88_HUMAN DNA-DIRECTED RNA POLYMERASE I, II, AND III 17.1 KD POLYPEPTIDE	AF105004	Rat mixed-tissue library Rattus norvegicus cDNA clone rx00570 3', mRNA sequence [Rattus norvegicus]
AI639015	13014			Null					EST (not recognized)		Rat mixed-tissue library Rattus norvegicus cDNA clone rx00967 3', mRNA sequence [Rattus norvegicus]
AI639532	13016	NM_003278	13016	NP_003270	13017			90n	troponin C2, fast		Rat mixed-tissue library Rattus norvegicus cDNA clone rx01030 3', mRNA sequence [Rattus norvegicus]
AI638891	13018			Null					EST (not recognized)		Rat mixed-tissue library Rattus norvegicus cDNA clone rx01088 3', mRNA sequence [Rattus norvegicus]
AI639048	13019	T00057	13020	Null				87	EST, Moderately similar to T00057 hypothetical protein KIAA0423 [H.sapiens]		Rat mixed-tissue library Rattus norvegicus cDNA clone rx01260 3', mRNA sequence [Rattus norvegicus]
AI639213	13021			Null					EST (not recognized)		
AI639017	13022	AAC84161	13023	XM_004192		XP_004192		88n	Mus musculus MHC class III region RD gene	AF109906	Rat mixed-tissue library Rattus norvegicus cDNA clone rx01287 3', mRNA sequence [Rattus norvegicus]



Table 3.

AI639376	13024	XM_005580	13025	XP_005580	13026	92n	Homo sapiens golgi autoantigen, golgin subfamily a, 1 (GOLGA1), mRNA	Rat mixed-tissue library Rattus norvegicus cDNA clone $\alpha$ 01335 3', mRNA sequence [Rattus norvegicus]
AI639376	13027	XM_005580	13028	XP_005580	13029	92n	Homo sapiens golgi autoantigen, golgin subfamily a, 1 (GOLGA1), mRNA	Rat mixed-tissue library Rattus norvegicus cDNA clone $\alpha$ 01335 3', mRNA sequence [Rattus norvegicus]
AI639432	13030			Null			EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone $\alpha$ 01413 3', mRNA sequence [Rattus norvegicus]
AI639465	13031			Null			EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone $\alpha$ 01612 3', mRNA sequence [Rattus norvegicus]
AI639465	13032			Null			EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone $\alpha$ 01612 3', mRNA sequence [Rattus norvegicus]
AI639102	13033			Null			EST(not recognised)	Rat mixed-tissue library Rattus norvegicus cDNA clone $\alpha$ 01844 3', mRNA sequence [Rattus norvegicus]
AI639120	13034			Null			EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone $\alpha$ 02423 3', mRNA sequence [Rattus norvegicus]

Table 3.

AI639396	13035	R3RT25	13036	NM_001028	13037	NP_001019	13038	81	EST, Moderately similar to 40S RIBOSOMAL PROTEIN S25 [R.norvegicus]	Rat mixed-tissue library Rattus norvegicus cDNA clone r03014 3', mRNA sequence [Rattus norvegicus]
AI639422	13039	NP_058827	13040	NM_001231	13041	NP_001222	13042	62	caesquestrin 1	Rat mixed-tissue library Rattus norvegicus cDNA clone r03053 3', mRNA sequence [Rattus norvegicus]
AI639204	13043			Null					EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone r03840 3', mRNA sequence [Rattus norvegicus]
AI639204	13044			Null					EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone r03840 3', mRNA sequence [Rattus norvegicus]
AI639247	13045	AY008106	13046	AAG49397	13047			80	EST, Moderately similar to T17296 hypothetical protein DKFZp434I092.1 [H.sapiens]	Rat mixed-tissue library Rattus norvegicus cDNA clone r03939 3', mRNA sequence [Rattus norvegicus]
AI639076	13048			Null					EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone r04025 3', mRNA sequence [Rattus norvegicus]
AI639076	13049			Null					EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone r04025 3', mRNA sequence [Rattus norvegicus]
AI639315	13050			Null					EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone r04457 3', mRNA sequence [Rattus norvegicus]
AI639137	13051			Null					EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone r04463 3', mRNA sequence [Rattus norvegicus]

Table 3.

AI639345	13052				Null			EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone x04716 3', mRNA sequence [Rattus norvegicus]
AI639471	13053				Null			EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone x04752 3', mRNA sequence [Rattus norvegicus]
AI639471	13054				Null			EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone x04752 3', mRNA sequence [Rattus norvegicus]
AI639222	13055				Null			EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone x04860 3', mRNA sequence [Rattus norvegicus]
AI639475	13056	BAB23951	13057	XM_043922	13058	XP_043922	13059	89n	Rat mixed-tissue library Rattus norvegicus cDNA clone x04972 3', mRNA sequence [Rattus norvegicus]
AI639387	13060			Null				EST (not recognized)	Rat mixed-tissue library Rattus norvegicus cDNA clone x05135 3', mRNA sequence [Rattus norvegicus]
AB049641	13061	BAB40846	13062	NIM_014078	13063	NP_054797	13064	81n	rc_AA789440 EST188937 Rattus norvegicus cDNA, 3' end /clone=RHEAB09 /clone_end=3' /gb=AA789440 /gi=2862395 /ug=Rn.8185 /len=705
AA789448	13065			Null				EST (not recognized)	rc_AA789448 EST188945 Rattus norvegicus cDNA, 3' end /clone=RHEAB18 /clone_end=3' /gb=AA789448 /gi=2862403 /ug=Rn.8286 /len=615
AA789448	13066			Null				EST (not recognized)	rc_AA789448 EST188945 Rattus norvegicus cDNA, 3' end /clone=RHEAB18 /clone_end=3' /gb=AA789448 /gi=2862403 /ug=Rn.8286 /len=615

Table 3.

AA789449	13067	NP_032698	13068	XM_006483	13069	XP_006483	13070	86n	Mus musculus nucleosome assembly protein 1-like 4 (Nap14)	NM_008672	rc_AA789449 EST188946 Rattus norvegicus cDNA, 3' end /clone=RHEAB19 /clone_end=3' /gb=AA789449 /gi=2862404 /ug=Rn.3286 /len=553
AA789449	13071	NP_032698	13072	XM_006483	13073	XP_006483	13074	88n	Mus musculus nucleosome assembly protein 1-like 4 (Nap14)	NM_008672	rc_AA789449 EST188946 Rattus norvegicus cDNA, 3' end /clone=RHEAB19 /clone_end=3' /gb=AA789449 /gi=2862404 /ug=Rn.3286 /len=553
AA789449	13075	NP_032698	13076	XM_006483	13077	XP_006483	13078	88n	Mus musculus nucleosome assembly protein 1-like 4 (Nap14)	NM_008672	EST188946 Rattus norvegicus cDNA, 3' end /clone=RHEAB19 /clone_end=3' /gb=AA789449 /gi=2862404 /ug=Rn.3286 /len=553
AA789464	13079	AB026908	13080	BAA81889	13081			90n	SDHD gene for small subunit of cytochrome b of succinate dehydrogena se		rc_AA789464 EST188961 Rattus norvegicus cDNA, 3' end /clone=RHEAB35 /clone_end=3' /gb=AA789464 /gi=2862419 /ug=Rn.3792 /len=662
AA789479	13082	XM_006097		XP_006097				89n	NADH dehydrogena se (ubiquinone) Fe-S protein 8 (23kD)		rc_AA789479 EST188976 Rattus norvegicus cDNA, 3' end /clone=RHEAB52 /clone_end=3' /gb=AA789479 /gi=2862434 /ug=Rn.3373 /len=881

Table 3.

AA799479	13083	XM_006097	13085	XP_006097					89n	NADH dehydrogenase (ubiquinone) Fe-S protein 8 (23kD)	EST188976 Rattus norvegicus cDNA, 3' end /clone=RHEAB52 /clone_end=3' /gb=AA799479 /gi=2862434 /ug=Rn.3373 /len=681
AA799508	13084	NP_074058	13085	NM_022818	13086	NP_073729	13087	96		Microtubule-associated proteins 1A/1B light chain 3	rc_AA799508 EST189005 Rattus norvegicus cDNA, 3' end /clone=RHEAB91 /clone_end=3' /gb=AA799508 /gi=2862463 /ug=Rn.883 /len=709
AA799526	13088	AAH11510	13089	XM_009884		XP_009884			91n	Musculus, similar to small nuclear ribonucleoprotein D3 polypeptide (18kD), clone MGC:7153 IMAGE:3256 782, mRNA, complete cds	EST189023 Rattus norvegicus cDNA, 3' end /clone=RHEAC15 /clone_end=3' /gb=AA799526 /gi=2862481 /ug=Rn.6351 /len=526
AA799545	13090	NP_033966	13091	BC006501	13092	AAH06501	13093	97		chaperonin subunit 3	rc_AA799545 EST189042 Rattus norvegicus cDNA, 3' end /clone=RHEAC38 /clone_end=3' /gb=AA799545 /gi=2862500 /ug=Rn.6017 /len=633



Table 3.

AA799637	13112	AAD13197	13113	U09284	13114	JC2324	13115	35	ESTs, Weakly similar to A55071 hydrogen peroxide-inducible protein hlc-5 mouse	AF095585	rc_AA799637 EST189134 Rattus norvegicus cDNA, 3' end /clone=RHEAD45 /clone_end=3' /gb=AA799637 /gi=2862592 /ug=Rn.25425 /len=571
AA799650	13116	NP_071985	13117	NM_006783	13118	NP_006784	13119	84	Peroxisomal protein	NM_022540	EST189147 Rattus norvegicus cDNA, 3' end /clone=RHEAD59 /clone_end=3' /gb=AA799650 /gi=2862605 /ug=Rn.2011 /len=593
AA799724	13120	NP_033113	13121	NM_015972	13122	NP_057056	13123	82	RNA polymerase 1-3 (16 kDa subunit)	NM_009087	rc_AA799724 EST189221 Rattus norvegicus cDNA, 3' end /clone=RHEAD52 /clone_end=3' /gb=AA799724 /gi=2862679 /ug=Rn.6228 /len=638
AA799801	13124	NP_085641	13125	NM_020642	13126	NP_065693	13127	70 (mus)	Predicted gene ICRFP703B1 614Q5.6	NM_020616	rc_AA799801 EST189298 Rattus norvegicus cDNA, 3' end /clone=RHEAD51 /clone_end=3' /gb=AA799801 /gi=2862756 /ug=Rn.3845 /len=596
AA799801	13128	NP_085641	13129	NM_020642	13130	NP_065693	13131	70 (mus)	Predicted gene ICRFP703B1 614Q5.6	NM_020616	rc_AA799801 EST189298 Rattus norvegicus cDNA, 3' end /clone=RHEAD51 /clone_end=3' /gb=AA799801 /gi=2862756 /ug=Rn.3845 /len=596
AA800044	13132			Null					EST(not recognised)		rc_AA800044 EST189541 Rattus norvegicus cDNA, 3' end /clone=RHEAD75 /clone_end=3' /gb=AA800044 /gi=2862999 /ug=Rn.3851 /len=630
AA800148	13133	AAF22214	13134	XM_040129		XP_040129		89	syndaplin libb	AF139495	rc_AA800148 EST189645 Rattus norvegicus cDNA, 3' end /clone=RHEAD69 /clone_end=3' /gb=AA800148 /gi=2863103 /ug=Rn.22783 /len=448

Table 3.

AA800186	13135	Null	EST (not recognized)	rc_AA800186 EST189683 Rattus norvegicus cDNA, 3' end /clone=RHEAM22 /clone_end=3' /gb=AA800186 /gi=2863141 /ug=Rn.21431 /len=437
AA800186	13136	Null	EST (not recognized)	EST189683 Rattus norvegicus cDNA, 3' end /clone=RHEAM22 /clone_end=3' /gb=AA800186 /gi=2863141 /ug=Rn.21431 /len=437
AA800202	13137	Null	EST(not recognised)	rc_AA800202 EST189699 Rattus norvegicus cDNA, 3' end /clone=RHEAM39 /clone_end=3' /gb=AA800202 /gi=2863157 /ug=Rn.6943 /len=543
AA800210	13138	Null	EST (not recognised)	rc_AA800210 EST189707 Rattus norvegicus cDNA, 3' end /clone=RHEAM47 /clone_end=3' /gb=AA800210 /gi=2863165 /ug=Rn.13244 /len=582
AA800216	13139	Null	Mus musculus 18 days embryo cDNA, RIKEN nuclear receptor binding protein (NRBP)	rc_AA800216 EST189713 Rattus norvegicus cDNA, 3' end /clone=RHEAM55 /clone_end=3' /gb=AA800216 /gi=2863171 /ug=Rn.22171 /len=618
AA800232	13140	NP_037524	89	rc_AA800232 EST189729 Rattus norvegicus cDNA, 3' end /clone=RHEAM72 /clone_end=3' /gb=AA800232 /gi=2863187 /ug=Rn.6301 /len=593
AA800319	13143	Null	EST (not recognized)	EST189816 Rattus norvegicus cDNA, 3' end /clone=RHEAN86 /clone_end=3' /gb=AA800319 /gi=2863274 /ug=Rn.8699 /len=601
AA800678	13144	Null	EST(not recognised)	rc_AA800678 EST180175 Rattus norvegicus cDNA, 3' end /clone=RLUAK20 /clone_end=3' /gb=AA800678 /gi=2863633 /ug=Rn.8592 /len=452